

Builders' *Hardware*

Catalog No. 20

NATIONAL
MANUFACTURING
COMPANY
STERLING, ILL.



water stains
over page

Builders' Hardware

Catalog No.20



NATIONAL
MANUFACTURING
COMPANY
STERLING, ILL.



As viewed from the city



As viewed from Rock River

Method of Distribution

Since its organization in 1901, it has been the policy of this Company to sell its product only through the retail dealers. By this sales method we have been able to give our customers a better quality of goods, prompt shipment of goods as ordered without substitution, and co-operation in advertising and selling them.

The size and variety of our stock enables the dealer to make up an order of a size sufficient to weigh 200 pounds or more, and thus secure the benefit of our liberal freight allowance.

The original and convenient methods used in packing our goods, as described on page 7 of this catalog, bring the goods to you in good condition, and save time for both clerks and customers.

Quality of Goods

In the construction of our goods only the best grades of material are used. Our machines are of the latest design. Our workmen are expert. With our careful method of inspection a perfect product is assured.

New Goods

Since the publication of our last catalog, we have added the following new goods to the line:

No. 55 Storm-Proof Junior Hangers	
Storm-Proof Junior Rail	No. 72 Cellar Window Set
No. 803 Garage Set	No. 73 Cellar Window Set
No. 852 Garage Hanger	No. 83 Turn Button
No. 847 Offset Garage Hinge	No. 502 Button Tip Butt
No. 20 Floor Guide	No. 529 Button Tip Butt
No. 15 Bar Holder	No. 629 Button Tip Butt
No. 846 Offset Garage Hinge	No. 652 Button Tip Butt

Service

A complete stock of all the goods illustrated herein is carried at all times, and orders will be filled promptly. *It is our policy to ship all mail orders the same day they are received.*

Prices and Terms

A complete net price-list applying to this catalog will be gladly mailed upon request. Inquiries for further detailed information concerning our goods will be cheerfully responded to.

Sherardizing

A satisfactory method of rust-proofing steel or iron has been unknown until recent years. The hot and electro processes of galvanizing have been used with more or less success, but for use under a great many conditions, neither has been entirely satisfactory.

There has now been invented a process of rust-proofing metal called "sherardizing," so named after its inventor, Sherard Cowper-Coles. It is a very simple process, but so very effective that we have adopted it for use instead of the electro-galvanizing process we have always used in the past.

In sherardizing, the parts, after being thoroughly cleansed, are put into a large steel drum, with zinc dust. After this the drum is securely closed and put into an oven, and is heated to about 700 degrees. When the parts are heated to this temperature, the molecules of the steel become active and the zinc dust penetrates into the skin of the steel and forms a zinc-iron alloy, or in other words becomes part of it.

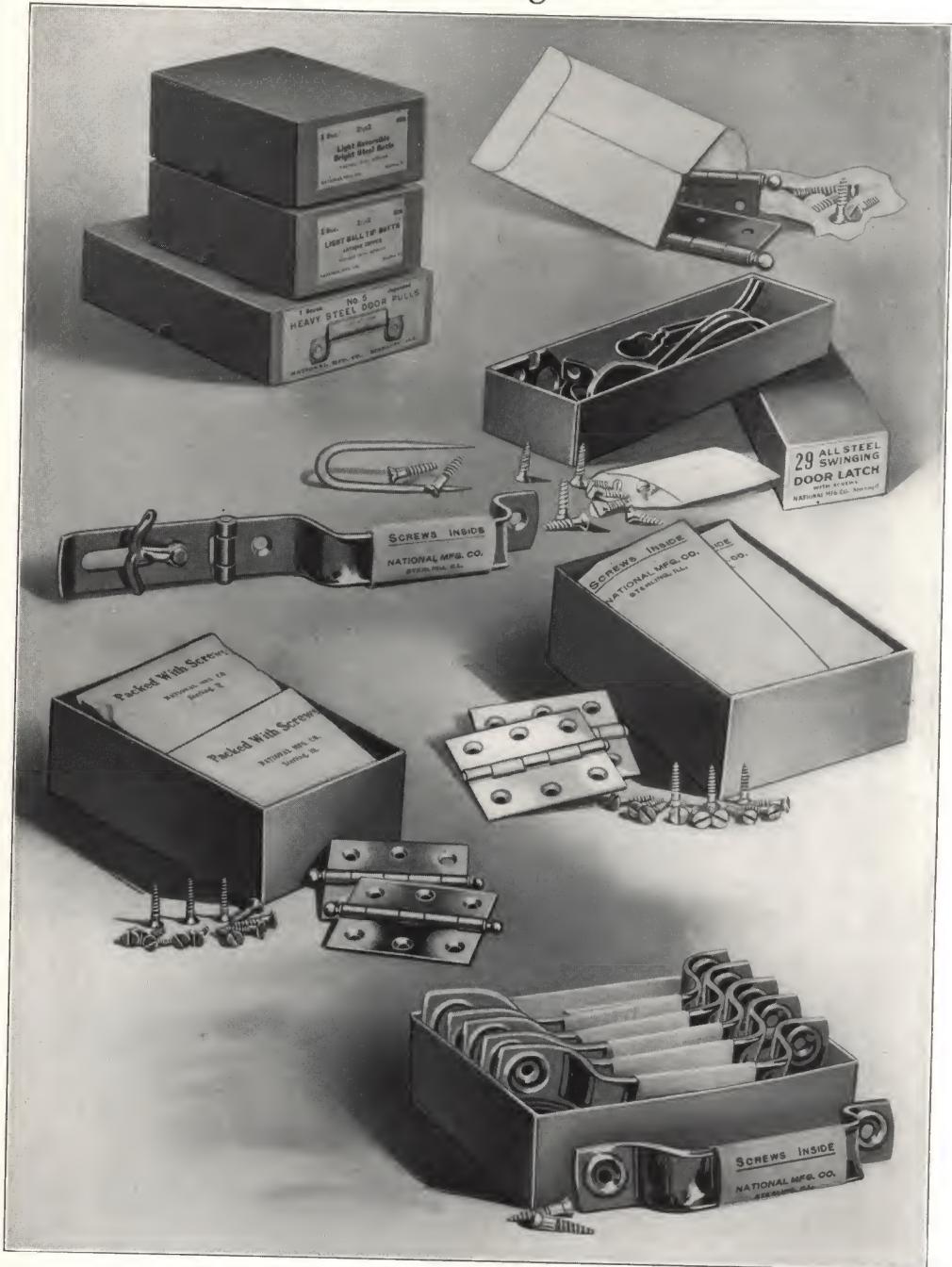
Sherardizing cannot peel off or crack, and will last for years. Unlike hot or electro-galvanizing, it affords an excellent surface to which paint will firmly adhere.

Every piece of sherardized goods we send out is subjected to what is known as the Preece test. This is a chemical test, and its action is equivalent to twenty years' exposure to the weather. The finished piece must stand this test or it is rejected by the inspector.

While this is a better and more expensive finish than we have used, we furnish it at the same price. The goods we furnish in this finish are so indicated in the following pages.

NATIONAL MANUFACTURING COMPANY
STERLING, ILLINOIS

Method of Packing with Screws



(See opposite page.)

Time-Saving Methods of Packing

Every hardware dealer who is interested in keeping down the expense of handling goods, and every one of his clerks, will appreciate National methods of packing goods.

Our first efforts, of course, are always directed toward producing a perfect product. When this has been accomplished, we pack the goods in the most convenient method for the dealer's use.

All the smaller sizes of Butts and Hinges are packed one pair in an envelope with screws. The larger sizes are packed one pair in a box with screws. This applies not only to plated finishes, but also to japan and bright steel. All cartons containing one-half and one dozen pairs of Butts or Hinges are sealed with gummed tape. Cartons containing one pair of Butts and Hinges are not taped, but are tied six pairs in a bundle. A glance will tell whether a carton or package has been opened or not. This method saves the time required to count screws, the loss from careless counting and the dealer's and customer's time. Time in invoicing also is saved, as broken packages can be "spotted" at a glance.

In addition to Door Butts and Hinges, the following goods also are packed with screws:

Barn and Garage Door Latches	Handle Hinge Hasps and Staples
Strap and "T" Hinges	Door Pulls
Safety Hasps	Cellar Window Sets
Hinge Hasps	Screen Hardware
No. 35 Automatic Hasps	Garage Door Hardware
Foot Scrapers	All Plated Goods

Barn Door Hangers are packed as follows:

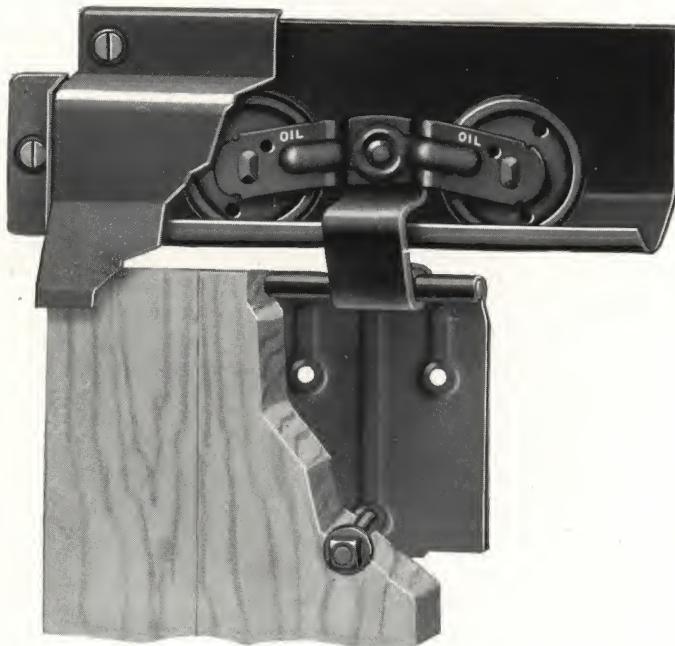
"Big 4" Hangers, one pair in a box with bolts. (See page 19.)

No. 11 and No. 12 National Hangers, one pair in a box with bolts.

Storm-Proof Hangers, one pair in a box with bolts and lag-screws for rail. (See page 19.)

A perfect product, perfectly packed, properly presented, produces pleasing profits.

No. 55 Storm-Proof Junior Door Hanger



The No. 55 Storm-Proof Junior Hanger is a new addition to the National line of door hangers, although the principle and design used in its construction are thoroughly tested and proven.

It is designed for use on small barn doors, inside stable doors, shed doors and garage doors, where the heavy standard type of barn door equipment is not necessary.

All the exclusive features used in the "Big 4" and Nos. 66, 77 and 88 Storm-Proof Hangers are found in No. 55 Storm-Proof Junior.

Each hanger has two wheels, in tandem, with anti-friction-steel roller bearings.

No great care is required in attaching the hangers to the doors as the equalizing-pin in the center of the wheel-truck insures even distribution of the load to each wheel.

It is both a rigid and a flexible hanger. When the door hangs straight down, there is no vibration in the hanger, but the hinged joint allows it to swing out should anything bump against the door.

Oil holes in the cover and truck straps are provided.

It is fastened to but one side of the door, which makes it much easier to attach than the clevis-style hanger.

These hangers are packed one pair in a box, with bolts for attaching the hangers to the doors, also Sherardized screws for hanging the rail, and end caps.

Packed one dozen pairs in a case.

Weight, per dozen pairs, 53 pounds.

Storm-Proof Junior Rail

In principle and design, the No. 55 Storm-Proof Junior Rail is identical with Storm-Proof Rail. The only difference is in the size and weight.

It is storm-proof and bird-proof; it shields the top of the door from snow, rain and wind. As compared to other Junior type barn door rails this is a distinctive feature in the National No. 55 Junior.

It fits closely against the building.

No brackets are required, as the rail itself forms a continuous bracket.

The rail is exceedingly strong and will support all the weight the hangers will carry.

The rail joints are dovetailed, forming the sections in practically a one-piece rail. No splice covers necessary.

The cover can be removed at any time for painting inside of rail.

The smaller holes at each end of the tread-part are for use in nailing the rail into position until the screws can be inserted, as clearly illustrated in directions packed with each pair of hangers. A great convenience.

Two pieces of a length, both cover and rail, are packed in a bundle. The parts nest compactly together, and consequently occupy less than one-half the space in the store room of any other enclosed rail.

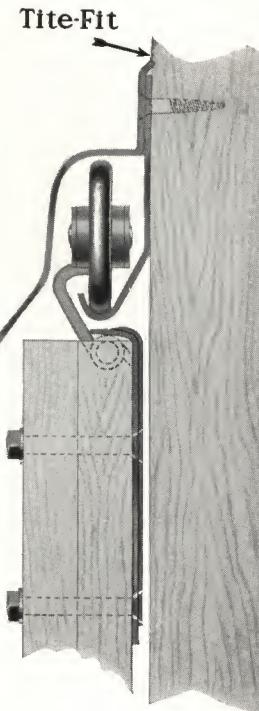
The holes for screws are one foot apart.

1 $\frac{1}{4}$ x 14 Sherardized screws are furnished to secure rail to building.

Storm-Proof Junior Rail is packed for shipment in the same manner as is Storm-Proof Rail. For method of packing, see page 16.

Made in 4-, 6-, 8- and 10-foot lengths.

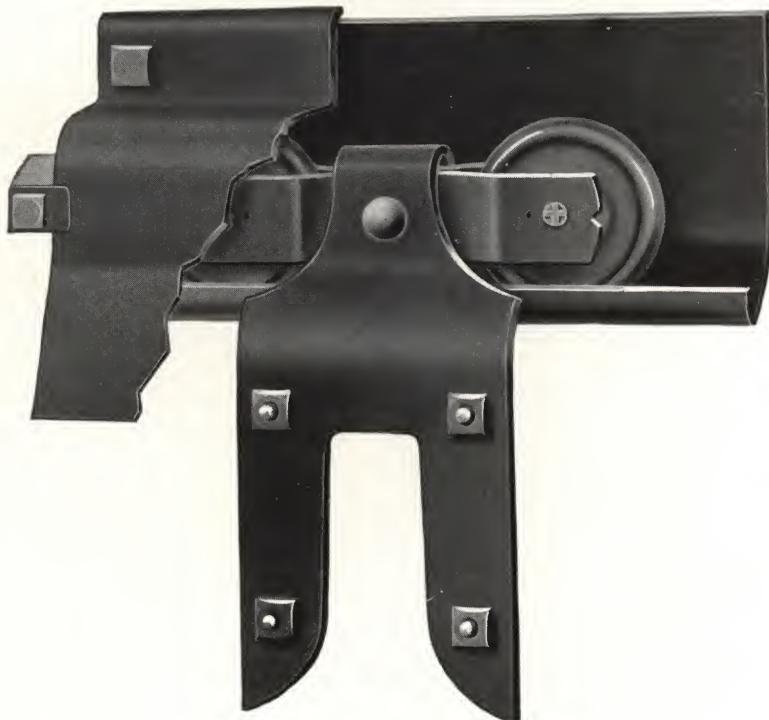
Weight, per hundred feet, 172 pounds.



Sectional view

No. 66 Rigid Storm-Proof Door Hanger

(Patented September 24, 1912)



This Hanger is very simple in construction, is made of heavy-gauge steel and has great carrying capacity.

Each Hanger has two wheels, in tandem, with anti-friction-steel roller bearings.

That part of the wheel which rolls on the rail is the same diameter in the Storm-Proof Hangers as in the "Big 4" Hangers.

No great care is required in attaching the Hangers to the door, as the equalizing-pin in the center of the wheel-truck insures even distribution of the load to each wheel.

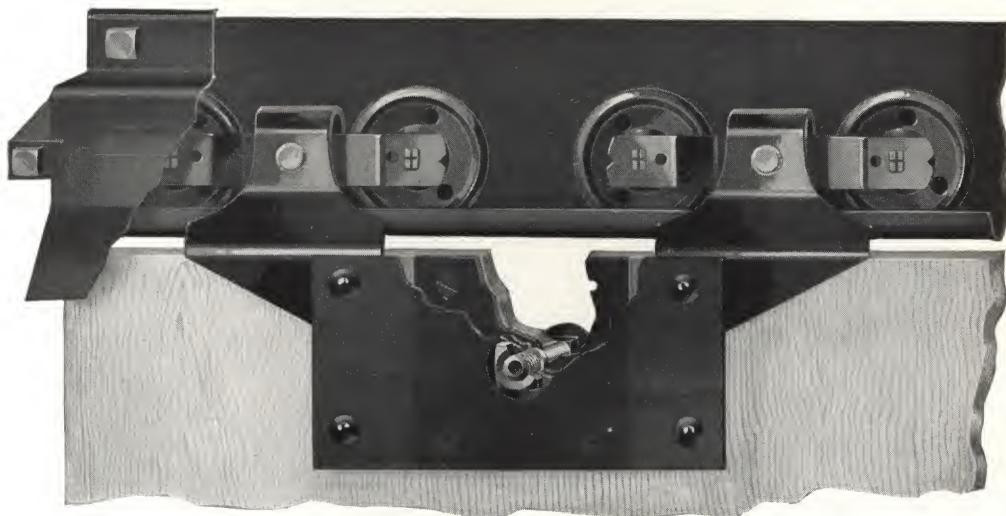
The same careful process of manufacture is used as with the "Big 4" Hangers, insuring a light-running bearing free from japan. Oil-holes for the bearings are also provided.

These Hangers are packed one pair in a box, with bolts for attaching the Hangers to the door; also lag-screws and end-stops for the rail. Each box contains also a set of illustrated directions for attaching the Hangers and rail. A socket wrench for lag-screws and bolts is packed with every two pairs of Hangers.

Packed one dozen pairs in a case.

Weight, per dozen pairs, 85 pounds.

No. 67
Storm-Proof Door Hanger



This hanger is made especially for heavy doors weighing 600 pounds or more.

It is a double truck hanger with equalizing pin in each truck. A heavy steel plate is furnished which is attached to the door. The suspension bolt passes through the door and plate and through the drop plate of the hanger. A special washer on the suspension bolt prevents the hanger from binding against door plate and permits a free movement of the door and hanger.

The weight of the door is distributed over a longer section of rail and greater carrying capacity is the result.

Packed one pair in a box with all necessary bolts for the hangers, lag screws, and end caps for the rail.

Weight, per pair, 16 pounds.

No. 77 Flexible Storm-Proof Door Hanger

(Patented April 24, 1906)
(Patented September 24, 1912)



The No. 77 Storm-Proof Hanger incorporates all the excellent features of the No. 66 Storm-Proof Hanger, and in addition it has the flexible hinge-joint. When the door hangs straight down, there is no vibration in the Hanger, but the hinged joint allows it to swing out should anything bump against the door. This feature places this Hanger in a class with the "Big 4" and makes it popular with the trade.

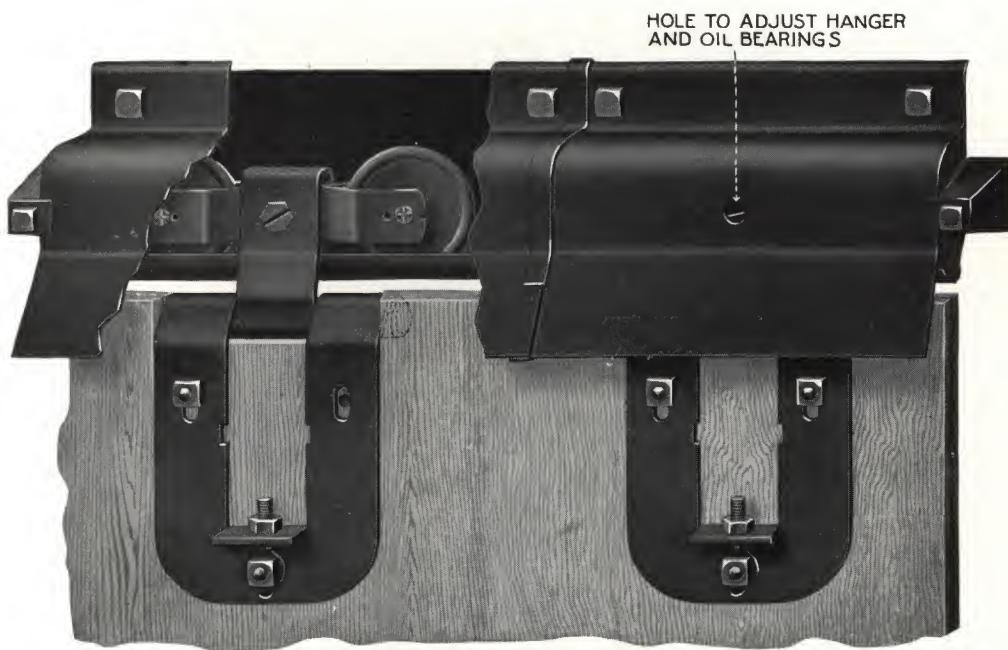
The connecting-strap and drop-strap are heavily embossed, increasing the already great strength of the Hanger. The method of attaching connecting-strap to truck permits the free action of the equalizing-pin, and holds the truck firmly in an upright position. The steel used in drop-strap and connecting-strap is $\frac{3}{16}$ inch thick.

Oil-holes for bearings are also provided.

Packed one pair in a box, with bolts for attaching the Hangers to door; also lag-screws and end-stops for the rail. Each box contains also a set of illustrated directions for attaching the Hangers and rail. A socket wrench for lag-screws and bolts is packed with every two pairs of Hangers.

Packed one dozen pairs in a case. Weight, per dozen pairs, 92 pounds.

No. 88 Adjustable Storm-Proof Door Hanger



The Adjustable Storm-Proof Hanger illustrated is the same in construction as our No. 77 Flexible, except that it has two adjustment features, vertical and lateral. The adjustment construction is very simple and easily operated.

Another distinctive feature of this construction is that the door is carried closer to the rail than with any other adjustable hanger we know of.

The Hangers are packed one pair in a box, with bolts for attaching the Hangers to the door; also lag-screws and end-caps for the rail. Each box contains also a set of illustrated directions for attaching the Hangers and rail. A socket wrench for lag-screws and bolts is packed with every two pairs of Hangers.

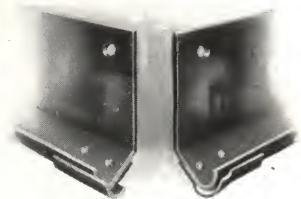
Packed one dozen pairs in a case.
Weight, per dozen pairs, 110 pounds.

Storm-Proof Rail

(Patented September 24, 1912)



View showing construction of Rail Joint



The steadily increasing sale of the Storm-Proof Rail is the best evidence as to its popularity with dealers and contractors. Several million of feet are in use, under every imaginable condition, in all sections of this country and Canada, and in all cases satisfactory service is being rendered.

This rail is for use with either the No. 66, No. 77 or No. 88 Storm-Proof Hangers.

It fits closely against the building.

It is storm-proof and bird-proof.

No brackets are required, as the rail itself forms a continuous bracket.

The rail is exceedingly strong, and will support all the weight the hangers will carry.

The rail joints are dovetailed, forming the sections in practically a one-piece rail. No splice covers necessary.

The cover can be removed at any time for painting inside of rail.

The smaller holes shown in the illustration are for use in nailing the rail into position until the lag-screws can be inserted, as clearly illustrated in directions packed with each pair of hangers. A great convenience.

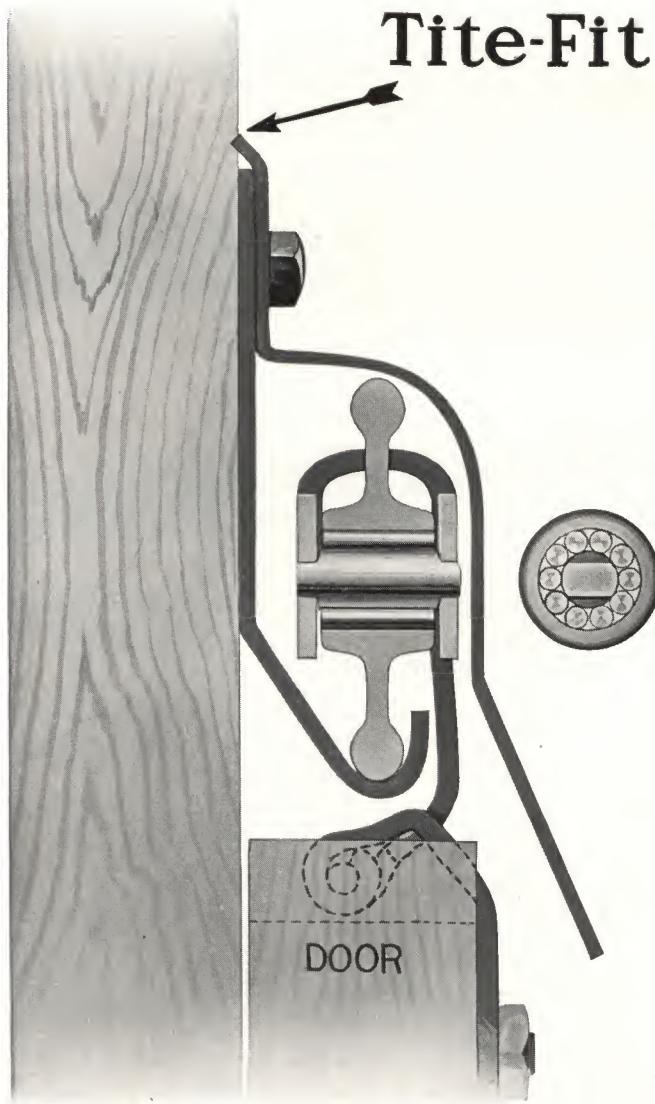
The holes for lag-screws are 2 feet apart.

Size of lag-screws furnished to secure rail, $2 \times \frac{3}{8}$ inches; to secure end-caps in rail, $3\frac{1}{2} \times \frac{5}{16}$ inches.

Made in 4-, 6-, 8- and 10-foot lengths, two pieces of a length in a bundle. (For method of packing, see page 16.)

Weight, per hundred feet, 265 pounds.

Sectional View of Storm-Proof Hanger and Rail



This illustration shows very clearly the extra length of the cover. The cover comes down to a point where it fully protects the opening above the top of the door.

Note the "Tite-Fit" Storm-Proof feature at the top, the perfect tread for the wheels and the roller bearings with which each wheel is equipped.

Method of Packing Storm-Proof Rail



The accompanying illustration shows the method used for packing our Storm-Proof Rail. This method of packing has proved so popular with our customers that it deserves special mention.

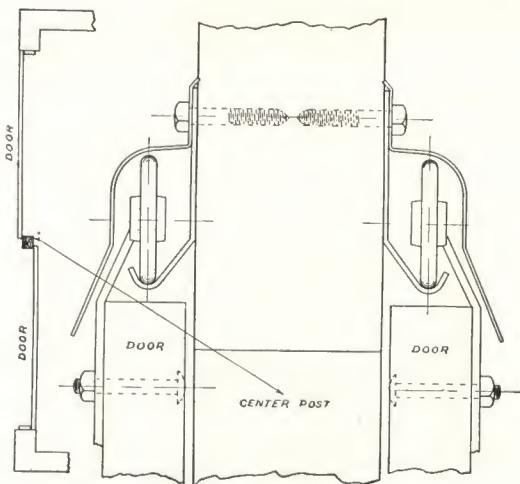
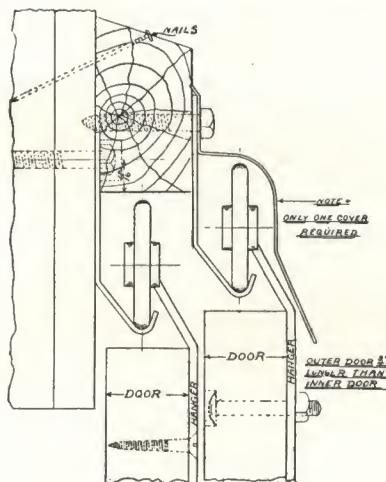
Two pieces of a length, both cover and Rail, are packed in a bundle. The parts nest compactly together and consequently occupy less than one-half the space in the store room of any other enclosed Rail.

The corners and edges are fully protected and cannot get bent in shipping or handling. The Rail reaches destination in perfect condition.

Many of our dealers say they seldom find it necessary to open a bundle. For a 4-foot opening, a bundle of two pieces, each 4 feet long, is supplied; for a 6-foot opening, a bundle of two pieces, each 6 feet long; for an 8-foot opening, a bundle of two pieces, each 8 feet long; and for a 10-foot opening, a bundle of two pieces, each 10 feet long.

As the most particular part of hanging a door is lining up the track properly on the building, the Rail is made in two pieces, track and cover. The carpenter has only one-half the weight to handle while lining up the Rail, as the cover is not put in place until everything is ready for inserting the lag-screws. The Rail is very easy to handle, as it is flat like a board.

All these features have been adopted only after careful investigation and experiment, and should be taken into consideration when comparing Storm-Proof with other enclosed rails.



Methods of Hanging Doors to Pass Each Other

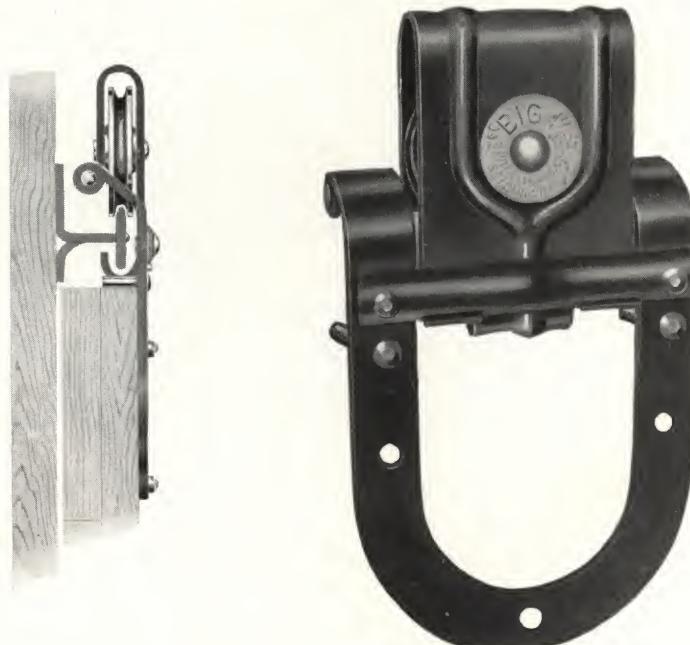
The above drawings illustrate two interesting and practical methods of hanging doors to pass each other, using No. 66 or No. 77 Storm-Proof Hangers and Rail, or No. 55 Storm-Proof Junior Hanger and Rail.

No special brackets or equipment are required. Note that on one drawing only one cover is used, reducing the cost quite materially. Full-size drawings will be gladly sent on request.

“Big 4” Flexible Door Hanger

(Patented April 24, 1906)

Anti-Friction-Steel Roller Bearings



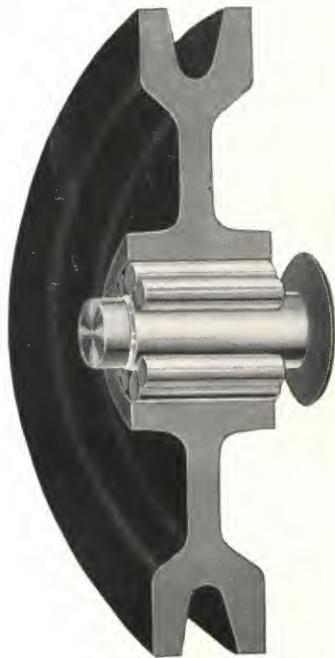
Front view of “Big 4” Hanger

Among all the Barn Door Hangers placed on the market since sliding barn doors have been in use, the “Big 4” stands pre-eminent. Thousands of dozen pairs have been sold and are giving the most satisfactory service under varied conditions in all sections of this country and Canada. No better evidence of its superiority is needed than the long years of satisfactory service it has rendered under every imaginable condition. A customer's best interests are always insured when he is sold “Big 4” Hangers.

The following is a detailed description:

First—The “Big 4” Hanger is built on extremely heavy lines, and in the simplest form of construction. To give greater strength we now emboss the hood as shown in the illustration. No complicated parts to get out of order.

Second—The Hanger is made entirely of steel. It is supplied with anti-friction-steel roller bearings, giving a perfectly free motion to the door.



Sectional view of Axle
and Bearings

Third—It is both a flexible and a rigid Hanger. When the door is hanging in its normal position, the Hanger is perfectly rigid, there being no vibration as in other flexible hangers. At the same time, if anything should bump against the door, the flexible feature comes into play and the door is allowed to swing out and rise higher than with any other flexible hanger.

Fourth—The Hanger is fastened to but one side of the door, which makes it much easier to attach than the clevis-style hanger.

Fifth—There are three bolt-holes in each Hanger, and when coupled up the door comes closer to the track than with any other hanger.

Sixth—The axle has a shoulder on the end, which prevents the wheel-housing from being pressed together and binding on the hub of the wheel. *The axles and rivets are Sherardized, to prevent rust.*

Seventh—The wheel and frame are japanned before assembling, and the wheel is reamed out *after* japanning. This method prevents the japan from getting into the bearings, as it would if the Hanger were dipped after being assembled.

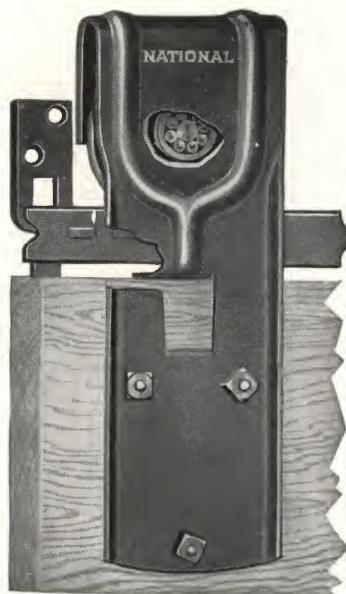
Eighth—The two studs, together with the hook turned under the rail, absolutely prevent the Hanger from jumping the track. The two studs serve also as a guide to attach Hangers to the door.

Packed one dozen pairs in a case.
Weight, per dozen pairs, 90 pounds.



Showing flexible feature
of
"Big 4" Hanger

“National” Rigid Barn Door Hanger



The embossed steel frame, with edges turned up, makes it very rigid. The lug turned in under the rail keeps the wheel from getting off, and serves as a guide for putting the Hanger on the door. Fitted with anti-friction-steel roller bearings. Packed one pair in a box, with bolts. One dozen pairs in a case. See page 21 for illustration showing bearings.

Made in two sizes, as follows:

No. 11. Width, 3½ inches. Diameter of wheel, 3½ inches.

Weight, per dozen pairs, 62 pounds.

No. 12. Width, 4½ inches. Diameter of wheel, 4¼ inches.

Weight, per dozen pairs, 87 pounds.

"Braced" Rail



$1\frac{1}{4}$ x $\frac{3}{16}$ inches. Made in 4-, 6-, 8-
and 10-foot lengths.

This Rail is used with the "Big 4" and National Hangers.

During the time it has been on the market, millions of feet have been sold and are giving universal satisfaction.

The following are points of superiority:

The brackets are the same width and thickness as the Rail itself.

It is braced below, so the screws will hold more than three times as much.

The holes are staggered, so the screws will not go into the same grain of wood.

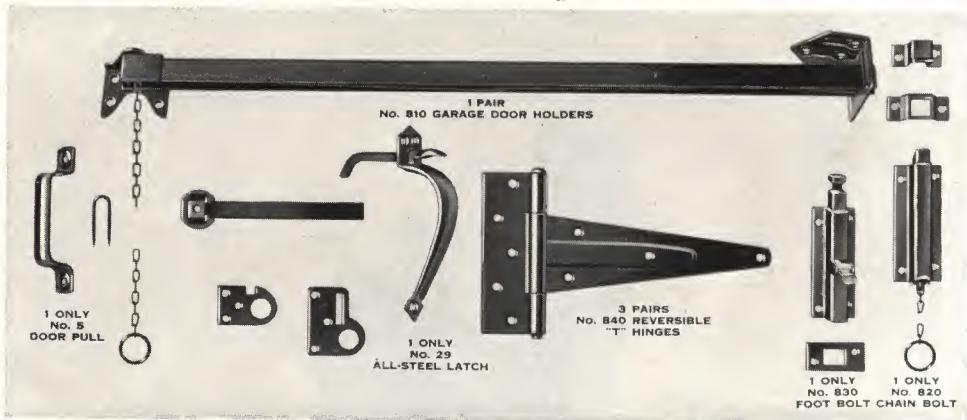
The brackets are only 12 inches apart and double-riveted, making it very rigid.

Any flat-rail barn door hanger will run on it.

Eight pieces of a length in a bundle.
Weight, per hundred feet, 97 pounds.

NATIONAL MANUFACTURING COMPANY
STERLING, ILLINOIS

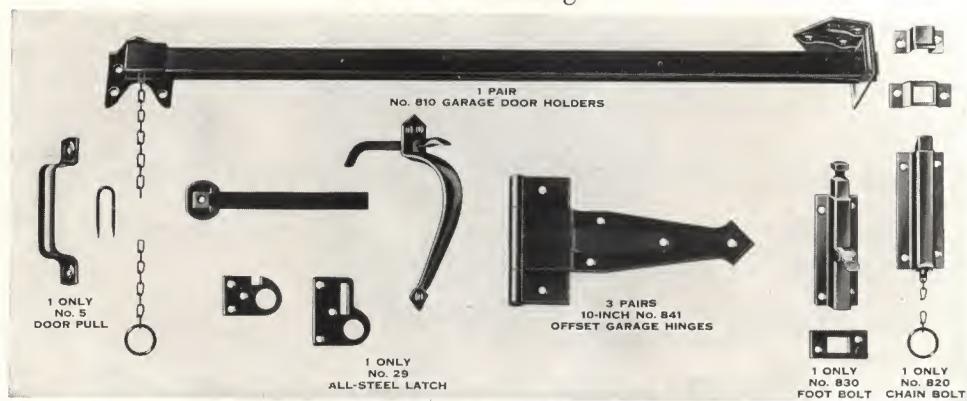
No. 800H Garage Set



Packed one complete set in a wooden box. Weight, per set, 8-inch, 21½ pounds.

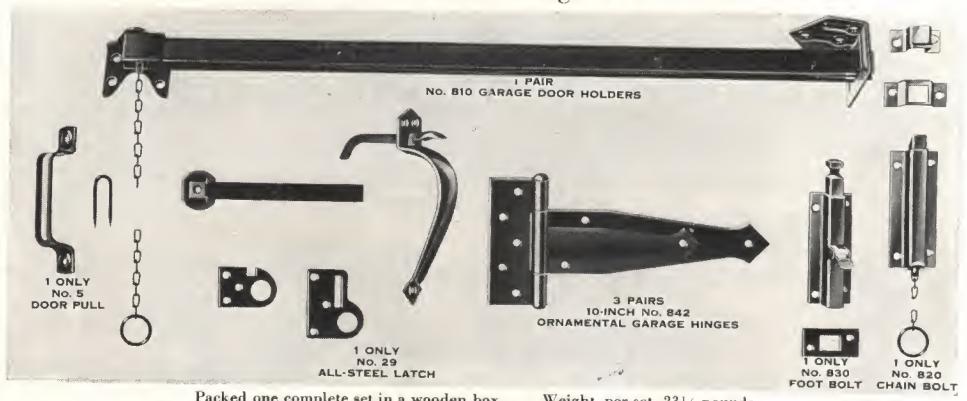
Weight, per set, 10-inch, 26 pounds.

No. 800AH Garage Set



Packed one complete set in a wooden box. Weight, per set, 23½ pounds.

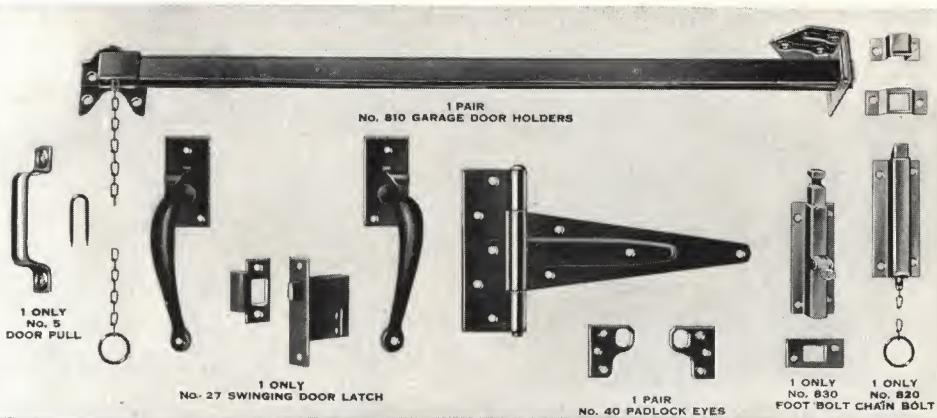
No. 800BH Garage Set



Packed one complete set in a wooden box. Weight, per set, 23½ pounds.
Above sets furnished in Japan, Dead Black Japan, Sherardized, Sherardized and Dead Black Japan.

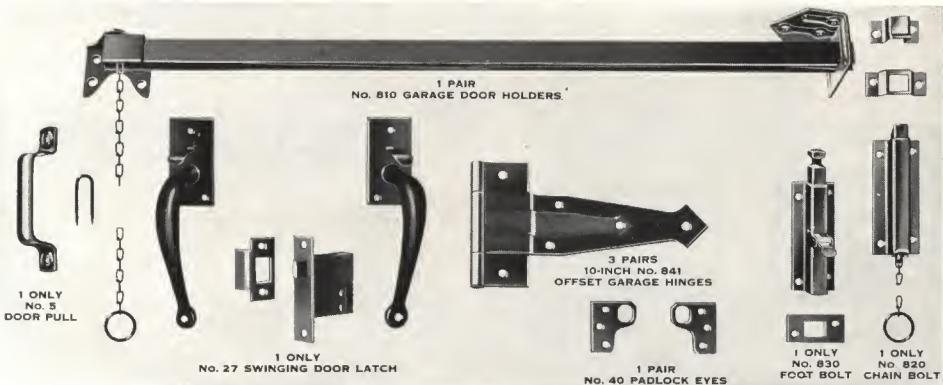
BUILDERS' HARDWARE

No. 801H Garage Set



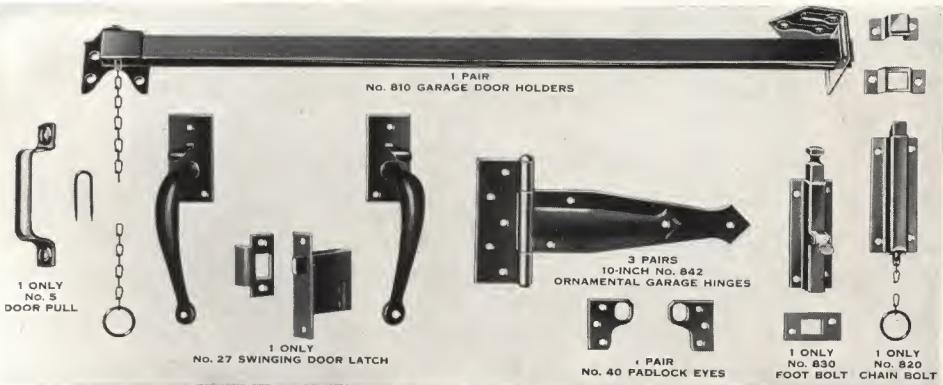
Packed one complete set in a wooden box. Weight, per set, 8-inch, $24\frac{1}{4}$ pounds. Weight, per set, 10-inch, $26\frac{3}{4}$ pounds.

No. 801AH Garage Set



Packed one complete set in a wooden box. Weight, per set, $25\frac{1}{2}$ pounds.

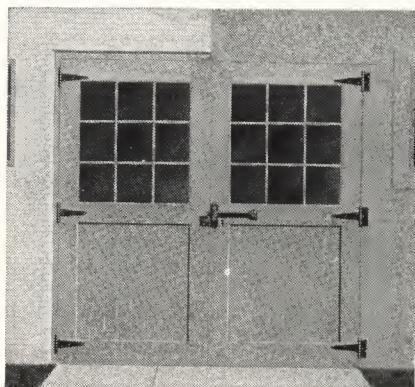
No. 801BH Garage Set



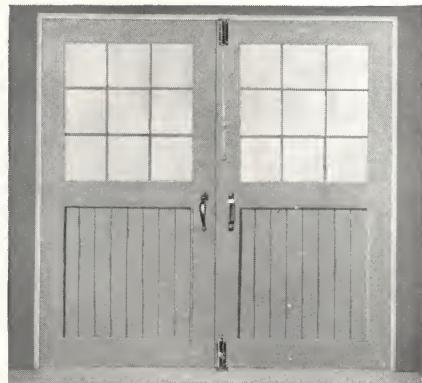
Packed one complete set in a wooden box. Weight, per set, $25\frac{1}{2}$ pounds.

Above sets furnished in Japan, Dead Black Japan, Sherardized, Sherardized and Dead Black Japan.

Nos. 800 and 801 Garage Door Sets



No. 800
Outside view



No. 800
Inside view



No. 801
Outside view



No. 801
Inside view

Doors constructed to swing on hinges have many advantages for garage use. They are always easily operated and give a close-fitting, weather-proof job. The cost is much less than for hanger and rail equipment.

The contents of all the No. 800 and No. 801 type Garage Door Sets are tabulated on pages 34 and 35.

B U I L D E R S ' H A R D W A R E

Nos. 805 and 806 Sliding and Swinging Garage Door Sets



The appearance of garage from outside is enhanced by absence of any structural ironwork. Note how the one door opens without disturbing the others.

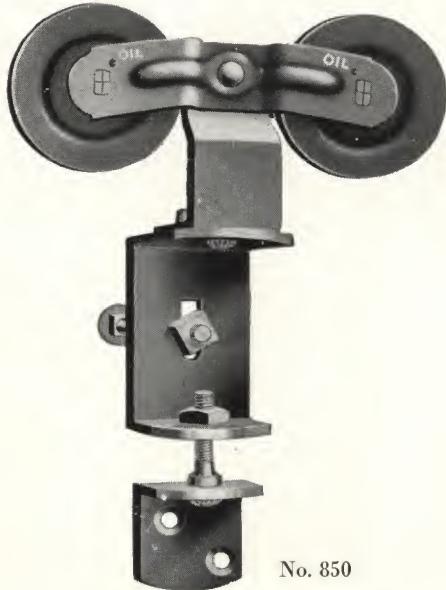


Inside view, showing doors closed. As they open inward, snow and ice cannot interfere. Doors swing into jamb against stops.
(For description, see page 29.)

Nos. 805 and 806 Sliding and Swinging Garage Door Sets



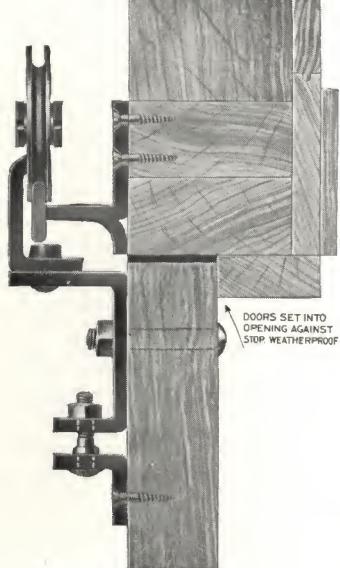
This view shows how snugly the doors hug the inside walls when open—allowing maximum space in the garage.



No. 850

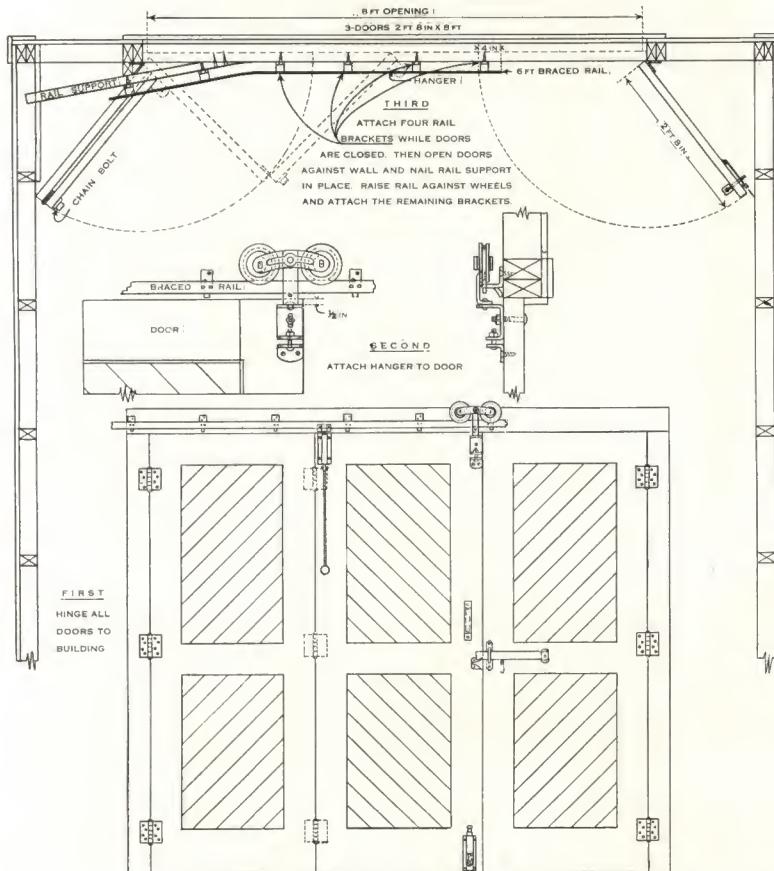
The Hanger operates on a swivel and turns on the track without sticking or binding in any way.

(For description, see page 29)



Sectional view of
No. 850 Swivel Hanger.

No. 805 and 806, Sliding and Swinging Garage Door Sets



An easy-working garage door set—a simple push and the doors are open; a slight pull and they are closed. No binding or friction. Doors work as freely and easily as any house door.

Doors swing into jamb against stops, same as in high-class house construction.

Doors are weather-tight. Snow and ice cannot interfere with opening and closing.

Convenient access to garage as one door is hung so it will open without disturbing the other two. Hangers are adjustable in case of swelling or raising of cement floor. Adjustable feature prevents sagging doors.

Doors require minimum space in opening as they are hung on inside and fold and slide against inner wall.

The price makes it the cheapest combination possible with which to efficiently equip garage doors.

Furnished regularly with six feet Braced Rail for eight-foot opening. When used on larger doors, width of opening should be given when ordering.

All sets furnished in Japan finish.

For list of contents see pages 34 and 35.

NATIONAL MANUFACTURING COMPANY
STERLING, ILLINOIS

No. 804 Garage Door Set



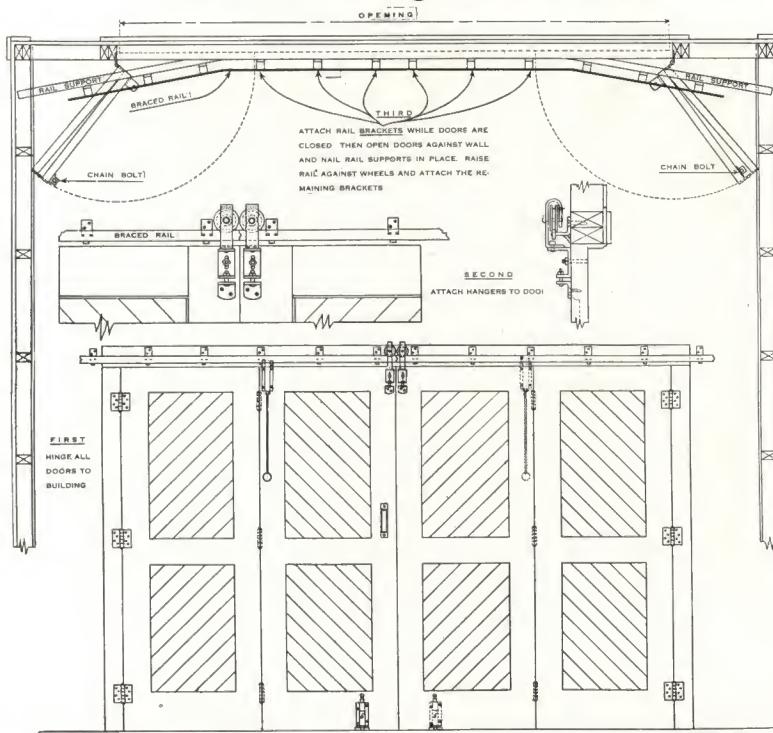
View outside garage



View inside garage

(For description, see opposite page.)

No. 804 Garage Door Set



This set makes an absolutely weather-tight job. The doors swing into jamb against stops.

The doors require a minimum of space in opening. Being hung on the inside, equipment is protected from the weather. Snow and ice will not interfere with opening and closing of doors.

The four doors are hung with 4 x 4-inch butts, with a strong, adjustable roller-bearing hanger on the outer end which prevents doors from sagging. Adjustment on hanger makes it possible to adjust doors in case of swelling or raising of cement floor. Works as freely and easily as any house door.

Furnished in Japan finish only.

For list of contents see pages 34 and 35.

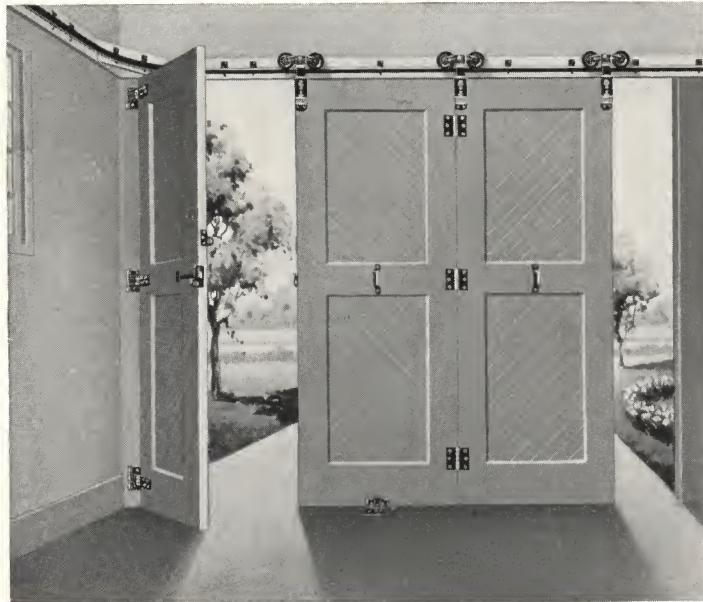


No. 851
Hanger

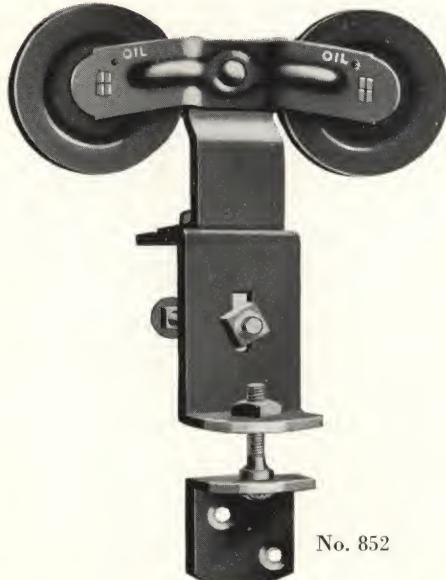


Sectional view of No. 851
Swivel Hanger

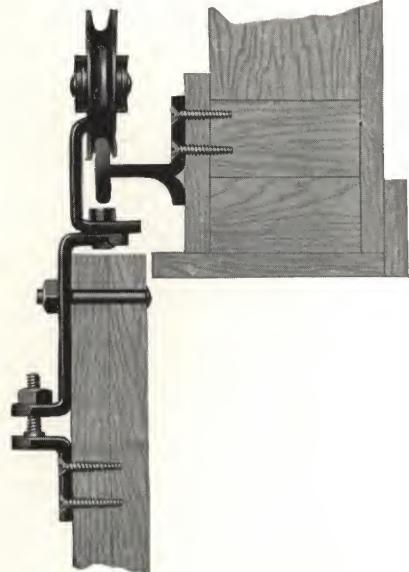
No. 803 Garage Door Set



Designed to carry doors around the corner.

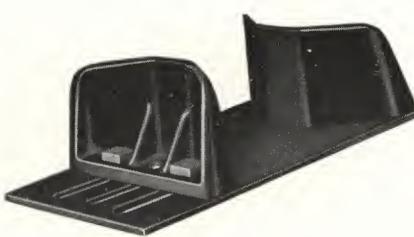
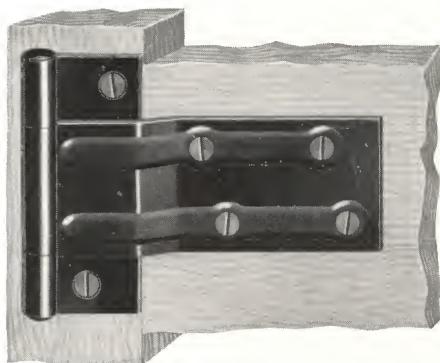


This Swivel Hanger is so designed that it will carry the doors around the corner without binding or sticking.



Sectional view of
No. 852 Swivel Hanger.

No. 803 Garage Door Set



No. 20 Adjustable Floor Guide. Creosote blocks are furnished with this to fasten it in concrete floors. Weight, per dozen, 27 pounds.

The No. 847 Hinge is offset so as to throw the service door entirely out of the opening and allow the other two doors to slide past.

Weight, per dozen pairs, 28½ pounds.

The swivel hangers are equipped with two wheels so that they will follow the track better. The truck that connects these wheels is bent slightly to prevent the flanges of the wheels from binding when turning the corner.

The hangers are adjustable, which makes it possible to adjust the doors in case of swelling or raising of cement floor.

All the hardware is hung on the inside of the building and protected from the weather.

This set is furnished regularly for an 8-foot opening with 8 feet of Braced Rail for over the door opening, 6 feet for along the sidewall, and a 4-foot curve for turning the corner. This curve is bent at the factory to insure a perfect arc when hung.

When used on larger doors, the width of the opening should be given when ordering.

Furnished in Japan finish only.
For list of contents see pages 34 and 35.

NATIONAL MANUFACTURING COMPANY
STERLING, ILLINOIS

Table of Contents of Garage Sets

Garage Set Number	No. 29 Latch	No. 27 Latch	4" x 4" No. 505 Jap. Butt	8" No. 840 Hinge	10" No. 840 Hinge	No. 841 Hinge	No. 842 Hinge	12" No. 843 Hinge	12" No. 844 Hinge	No. 847 Hinge
8" No. 800	1 only	...	...	3 pair	...	...	...	...	...	...
10" No. 800	1 only	...	...	...	3 pair	...	...	...	...	...
No. 800A	1 only	...	...	...	...	3 pair	...	...	...	...
No. 800B	1 only	...	...	...	...	...	3 pair	...	...	...
No. 800C	1 only	...	...	...	...	...	...	3 pair	...	...
No. 800D	1 only	...	...	...	...	...	...	...	3 pair	...
8" No. 801	...	1 only	...	3 pair	...	...	...	...	...	...
10" No. 801	...	1 only	...	...	3 pair	...	...	...	...	...
No. 801A	...	1 only	...	...	...	3 pair	...	...	...	...
No. 801B	...	1 only	...	...	...	...	3 pair	...	...	...
No. 801C	...	1 only	...	...	...	...	...	3 pair	...	...
No. 801D	...	1 only	...	...	...	...	...	...	3 pair	...
No. 803	1 only	...	1½ pair	...	...	...	...	...	...	1½ pair
No. 804	...	...	6 pair	...	...	...	...	...	...	...
No. 804A	...	...	3 pair	...	...	3 pair	...	...	...	...
No. 804B	...	...	3 pair	...	...	3 pair	...	...	...	...
No. 804C	...	...	3 pair	...	...	3 pair	...	...	...	...
No. 804D	...	...	3 pair	...	...	3 pair	...	...	3 pair	...
No. 805	1 only	...	4½ pair	...	...	...	...	...	...	...
No. 805A	1 only	...	1½ pair	...	...	3 pair	...	...	...	...
No. 805B	1 only	...	1½ pair	...	...	3 pair	...	...	...	...
No. 805C	1 only	...	1½ pair	...	...	3 pair	...	...	...	...
No. 805D	1 only	...	1½ pair	...	...	3 pair	...	...	3 pair	...
No. 806	...	1 only	4½ pair	...	...	...	...	...	...	...
No. 806A	...	1 only	1½ pair	...	...	3 pair	...	...	...	...
No. 806B	...	1 only	1½ pair	...	...	3 pair	...	...	...	...
No. 806C	...	1 only	1½ pair	...	...	3 pair	...	...	...	...
No. 806D	...	1 only	1½ pair	...	...	3 pair	...	...	3 pair	...

If a No. 810 Garage Door Holder is desired packed with any of the No. 800 or 801 type sets, designate it by adding an "H" to the catalog number, as 10" No. 800H or No. 801AH.

B U I L D E R S ' H A R D W A R E

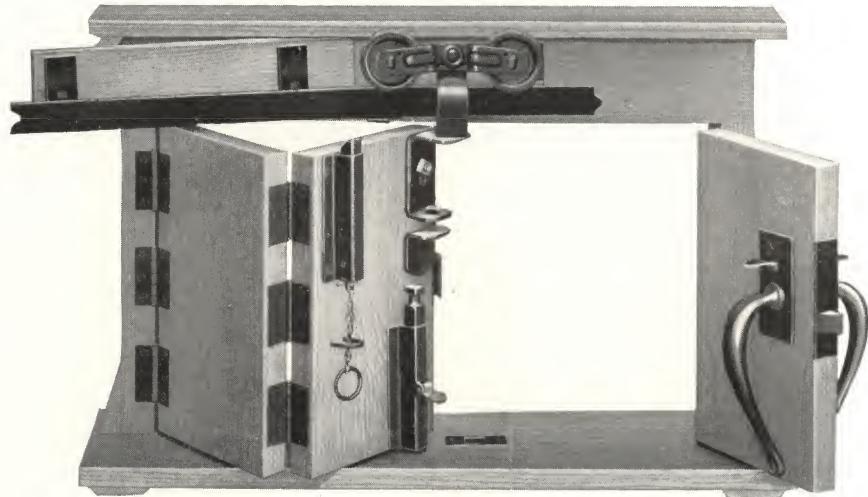
Table of Contents of Garage Sets

No. 820 Chain Bolt	No. 830 Foot Bolt	No. 5 Pull	No. 40 Padlock Eyes	No. 850 Swivel Hanger	No. 851 Swivel Hanger	No. 852 Swivel Hanger	Braced Rail	No. 20 Floor Guide	Weight Per Set	Garage Set Number
1 only	1 only	1 only	. . .	. . .	. . .	. . .	. . .	. . .	12½ lbs.	8" No. 800
1 only	1 only	1 only	. . .	. . .	. . .	. . .	. . .	. . .	16¾ lbs.	10" No. 800
1 only	1 only	1 only	. . .	. . .	. . .	. . .	. . .	. . .	13¾ lbs.	No. 800A
1 only	1 only	1 only	. . .	. . .	. . .	. . .	. . .	. . .	13¾ lbs.	No. 800B
1 only	1 only	1 only	. . .	. . .	. . .	. . .	. . .	. . .	21 lbs.	No. 800C
1 only	1 only	1 only	. . .	. . .	. . .	. . .	. . .	. . .	21 lbs.	No. 800D
1 only	1 only	1 only	1 pair	. . .	. . .	. . .	. . .	. . .	14¾ lbs.	8" No. 801
1 only	1 only	1 only	1 pair	. . .	. . .	. . .	. . .	. . .	17¾ lbs.	10" No. 801
1 only	1 only	1 only	1 pair	. . .	. . .	. . .	. . .	. . .	16½ lbs.	No. 801A
1 only	1 only	1 only	1 pair	. . .	. . .	. . .	. . .	. . .	16½ lbs.	No. 801B
1 only	1 only	1 only	1 pair	. . .	. . .	. . .	. . .	. . .	24 lbs.	No. 801C
1 only	1 only	1 only	1 pair	. . .	. . .	. . .	. . .	. . .	24 lbs.	No. 801D
. . .	. . .	2 only	1 pair	. . .	. . .	3 only	18 feet	1 only	36 lbs.	No. 803
2 only	2 only	2 only	1 pair	. . .	2 only	. . .	12 feet	. . .	29½ lbs.	No. 804
2 only	2 only	2 only	1 pair	. . .	2 only	. . .	12 feet	. . .	35¾ lbs.	No. 804A
2 only	2 only	2 only	1 pair	. . .	2 only	. . .	12 feet	. . .	36 lbs.	No. 804B
2 only	2 only	2 only	1 pair	. . .	2 only	. . .	12 feet	. . .	45 lbs.	No. 804C
2 only	2 only	2 only	1 pair	. . .	2 only	. . .	12 feet	. . .	45 lbs.	No. 804D
1 only	1 only	1 only	1 pair	1 only	. . .	. . .	6 feet	. . .	18½ lbs.	No. 805
1 only	1 only	1 only	1 pair	1 only	. . .	. . .	6 feet	. . .	25 lbs.	No. 805A
1 only	1 only	1 only	1 pair	1 only	. . .	. . .	6 feet	. . .	25 lbs.	No. 805B
1 only	1 only	1 only	1 pair	1 only	. . .	. . .	6 feet	. . .	34½ lbs.	No. 805C
1 only	1 only	1 only	1 pair	1 only	. . .	. . .	6 feet	. . .	34½ lbs.	No. 805D
1 only	1 only	1 only	1 pair	1 only	. . .	. . .	6 feet	. . .	21 lbs.	No. 806
1 only	1 only	1 only	1 pair	1 only	. . .	. . .	6 feet	. . .	27½ lbs.	No. 806A
1 only	1 only	1 only	1 pair	1 only	. . .	. . .	6 feet	. . .	27½ lbs.	No. 806B
1 only	1 only	1 only	1 pair	1 only	. . .	. . .	6 feet	. . .	37 lbs.	No. 806C
1 only	1 only	1 only	1 pair	1 only	. . .	. . .	6 feet	. . .	37 lbs.	No. 806D

All No. 800 and No. 801 type sets are furnished regularly in the following finishes: Japan, Dead Black Japan, Sherardized, Sherardized and Dead Black Japan.

The Nos. 803, 804, 805, 806 type sets are furnished in Japan only.

No. 806 Garage Door Set Model



One of these models should be on display wherever these sets are in stock. It affords an excellent and practical method of demonstrating the superior features of these sets.

A similar model of the No. 805 set can be furnished when desired.

No. 40 Padlock Eyes



A convenient device for locking garage, barn or shed doors.

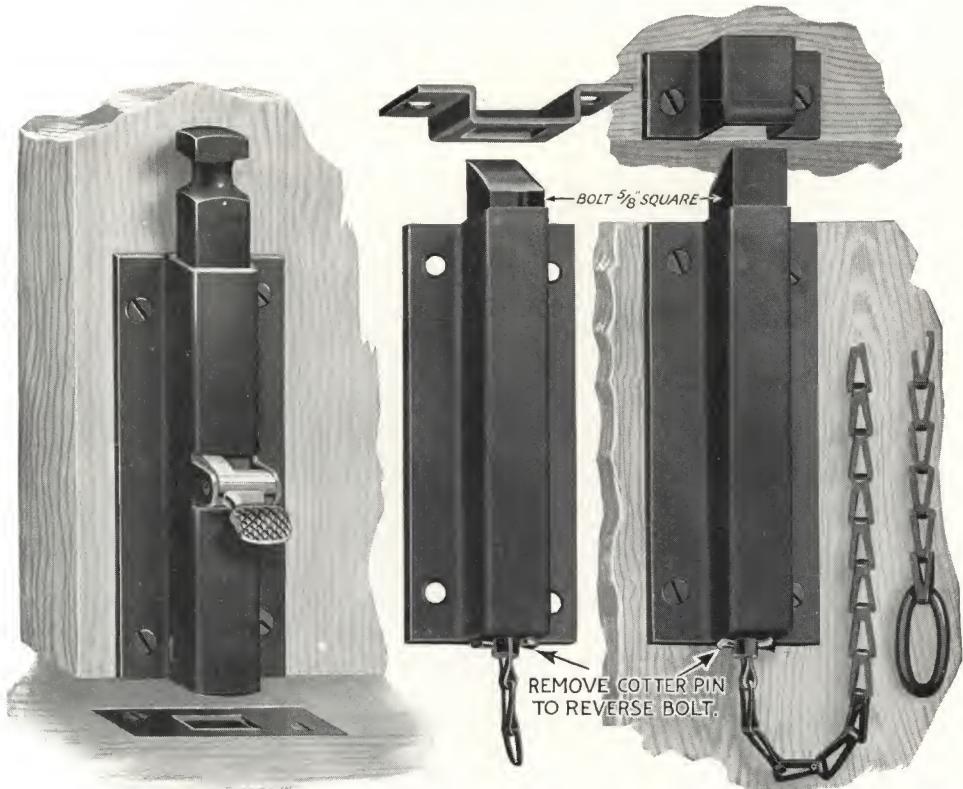
Mortised into edge of door, screws are concealed, preventing their removal when doors are closed.

Furnished in Japanned and Sherardized finishes.

Packed one pair in an envelope with screws, one dozen pairs in a box.

Weight, per dozen pairs, $2\frac{3}{4}$ pounds.

Foot and Chain Bolt Set



No. 830 Foot Bolt

No. 820 Chain Bolt

The cases of these bolts are made of wrought steel. The bolts are extra heavy, being $\frac{5}{8}$ inch square.

Foot Bolt—The lever to raise the bolt has a positive action. The bolt is held in place when raised by an oil-tempered steel friction spring. Cannot get out of order.

Chain Bolt—Equipped with high-grade safety chain which cannot pull apart. It is reversible by removing cotter-pin and turning bolt. Plates have rounded top, giving a roller-shaped bearing on which bolts work easily.

Packed one set in a box, one No. 820 and one No. 830, with 1-inch screws, staple for chain guide and two plates for head jamb, one for doors swinging in and one for doors swinging out. Packed separately, when so ordered, one-half dozen in a box. Six dozen in a case. Any finish desired.

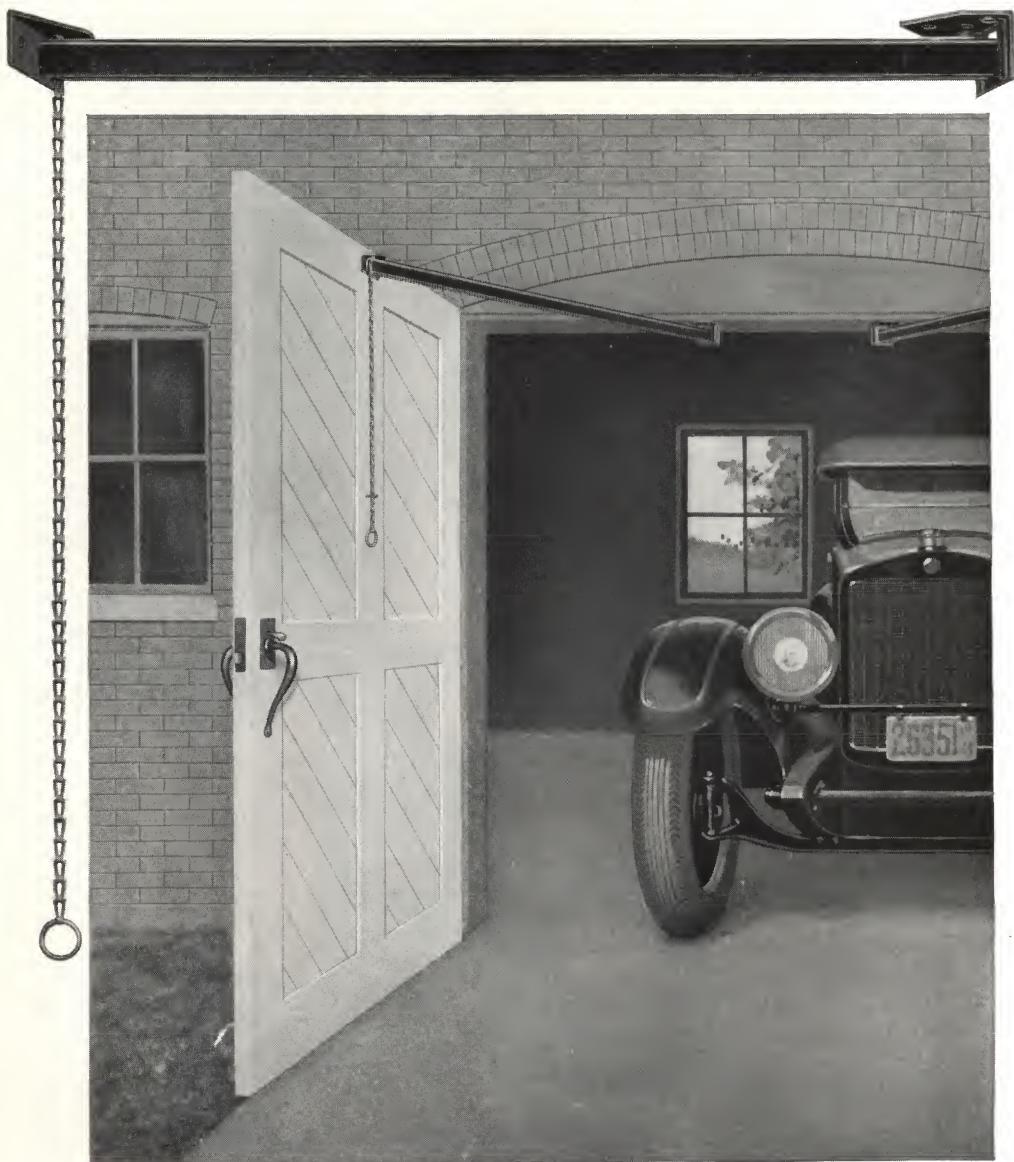
Weight, per dozen sets, one each, $22\frac{1}{2}$ pounds.

No. 820—Weight, per dozen, $10\frac{3}{4}$ pounds.

No. 830—Weight, per dozen, $11\frac{1}{2}$ pounds.

NATIONAL MANUFACTURING COMPANY
STERLING, ILLINOIS

No. 810 Garage Door Holder



(Description on opposite page.)

No. 810 Garage Door Holder

Garage doors constructed to swing on hinges are rendered harmless when equipped with this Garage Door Holder. It holds the doors securely open and prevents them from damaging the car when entering or leaving the garage.

The Holder has a rigid, U-shaped steel arm 32 inches long.

A swivel joint allows the Holder to fold back out of the way along the head jamb when the door is closed.

When the door is opened the long, U-shaped arm slides through the embossed steel catch-plate and drops into two notches in the end of the arm.

To close the door, a light pull on the safety chain operates the trip-bar and releases the Holder.

The complete Holder is made throughout of heavy-gauge steel and is amply strong for any door.

Packed one pair in a package, complete with screws. Six pairs in a case.

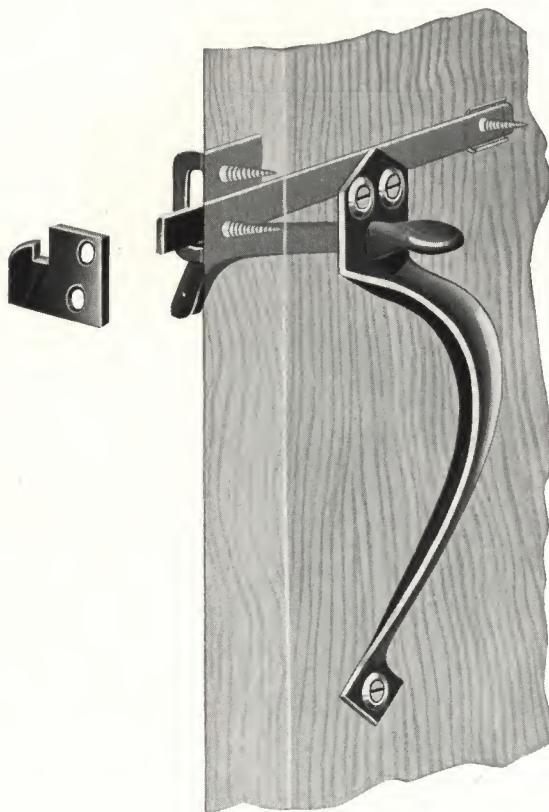
Packed also with swinging garage door sets when so desired. See pages 24 and 25.

Finished as follows: Japan, Dead Black Japan, Sherardized, Sherardized and Dead Black Japan.

Weight, per pair, $6\frac{1}{4}$ pounds.

No. 24 Cottage Door Latch

Japanned



This Latch is made especially for light-weight doors, such as screen doors, cellar doors, storm doors, etc.

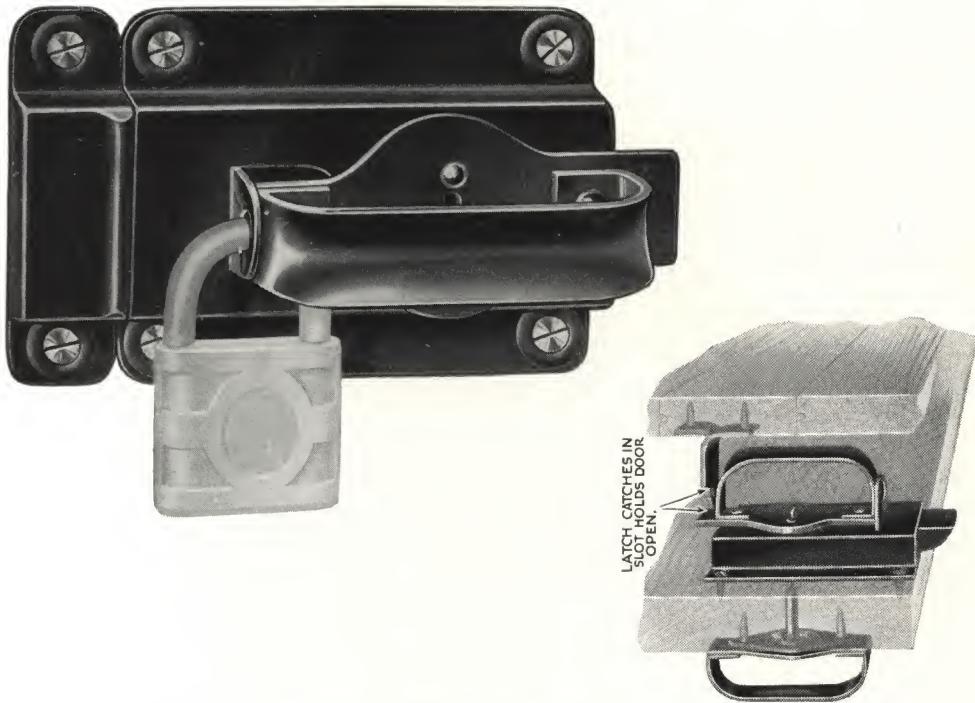
It is made entirely of steel, nicely japanned.

The long, graceful lines of the handle are out of the ordinary in this type of Latch, giving it a distinctive appearance.

Packed one in a box, with screws. Three dozen in a case.

Weight, per dozen, 4½ pounds.

No. 25 Swinging Door Latch



A popular type of Latch for swinging doors.

Made entirely of steel.

The large bolt is sherardized and has a rounding face which works easily on the roller-shaped edge of the strike.

Adjustable for doors $\frac{3}{4}$ inch to $2\frac{1}{4}$ inches thick.

Construction prevents flattening of handle when door swings back against building.

Handle is placed back of center of case—prevents injury to hand when opening or closing door.

Strike has wide opening, which insures a positive lock should the door sag.

Illustration shows how padlock can be inserted to lock Latch.

Spring made of music wire.

Easily installed—bore a $\frac{1}{2}$ -inch hole for the handle and insert screws.

Packed one in a box, with screws and catch to hold door open. Five dozen in a case.

Weight, per dozen, 20 pounds.

No. 27 Swinging Door Latch

Here's the aristocrat of Door Latches.

The handles, one on either side of the door, with their long, graceful lines, resemble those of the higher-grade door locks, and will improve the appearance of any door.

The mechanism is simplicity itself. No complicated parts to get out of order. Does its work easily and effectively.

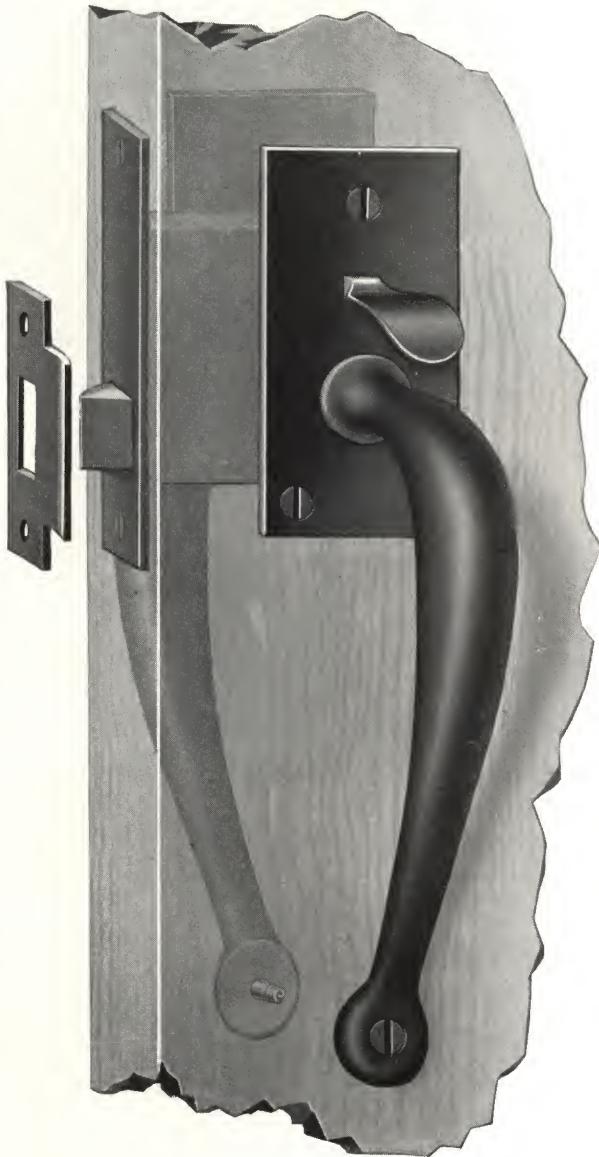
Reversible for right- or left-hand door.

Adjustable for doors $1\frac{1}{8}$ to $2\frac{1}{4}$ inches thick.

Packed one complete Latch, with screws, in a neat, strong box. One dozen in a case.

Finished regularly as follows: Japan, Dead Black Japan, Sherardized and Dead Black Japan, Sherardized and plated any finish.

Weight, per dozen,
36 pounds.



No. 28 "Washburne" Sliding Door Latch

Japanned



This Latch is made entirely of steel, and is adapted for use on either right- or left-hand sliding doors.

It is so constructed that it is flush with the door on the inside, so that the door can be opened full width.

A new style of plate staple is supplied which permits placing the Latch so that the bar extends over edge of door only $\frac{3}{4}$ inch.



Section of door showing "Washburne" Latch attached. Note that the pin is flush with inside of door.

The small hole through which pin extends is bored with $\frac{1}{2}$ -inch bit; the large holes for handhold with a 1-inch bit, through inside thickness of lumber only.

Envelope with screws packed with each Latch.

Packed one-half dozen in a box. Six dozen in a case.

Weight, per dozen, 10 pounds.

No. 29 All-Steel Latch

Japanned



This is our idea of a perfect Barn Door Latch for swinging doors. As the name implies, it is made entirely of steel.

The door can be locked by inserting shackle of padlock through slot in strike and slide.

Each Latch is supplied with a catch to hold the door open. (See lower illustration.)

Envelope with screws packed with each Latch.

Packed one in a box. (See page 45.) Three dozen in a case.

Weight, per dozen, 14 $\frac{1}{4}$ pounds.

Method of Packing No. 29 All-Steel Latch

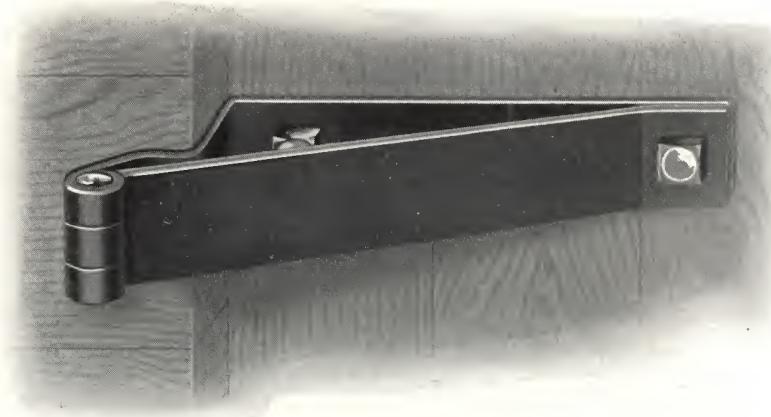


One complete Latch in a box, with the necessary screws for attaching the Latch, makes a convenient package.

Your clerks and your customers will like this method and additional sales will follow.

A perfect Latch, perfectly packed.

No. 16 Barn Door Bumper



A good, substantial Barn Door Bumper, placed in the proper position on the building, is very essential in securing the best results with sliding barn door hangers.

Bumpers made of wood do not stand the hard usage and soon become of no value.

To meet the demand for a Barn Door Bumper that will stand the strain, we have placed on the market the one illustrated above.

It is made of $1\frac{1}{2} \times 5\frac{5}{32}$ -inch steel.

The Bumper is attached to the building 3 inches above the center of the door with two $2 \times \frac{7}{16}$ -inch lag-screws.

The construction of this Bumper is such that it holds the door close against the building.

It has a hinged joint, which provides a convenient method for inserting the first lag-screw.

This Bumper will save the time and labor required to make an inferior article of wood, and one should be used with every pair of hangers.

Packed two in a box, with lag-screws.

Weight, per dozen, 20 pounds.

No. 17 Barn Door Bumper



Here is a strong, sturdy pressed-steel Barn Door Bumper. The two extra heavy embossed ribs add materially to the strength of the bumper. Simple in construction and easy to attach.

They come packed one dozen in a box, with 2 x $\frac{5}{16}$ -inch lag-screws. Finish: Japan.

Weight, per dozen, 11 pounds.



No. 15 Bar Holder

For use in holding garage doors shut with a wooden bar.

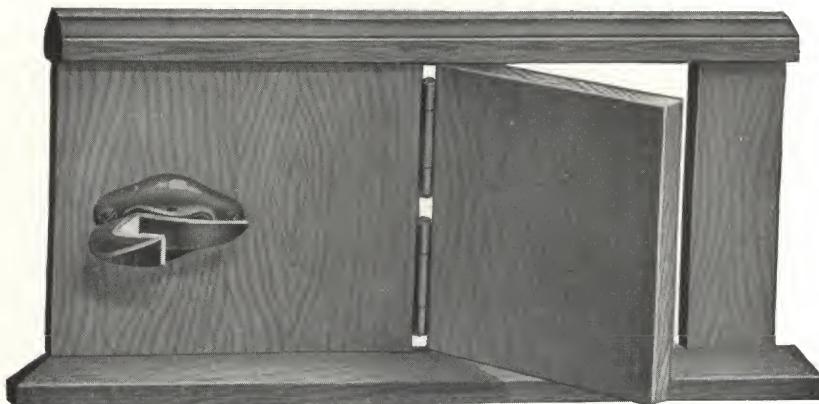
Made very heavy from $1\frac{1}{2} \times \frac{1}{4}$ -inch hot rolled steel.

Packed one dozen in a box, with screws.

Japan finish only.

Weight, per dozen, $10\frac{1}{2}$ pounds.

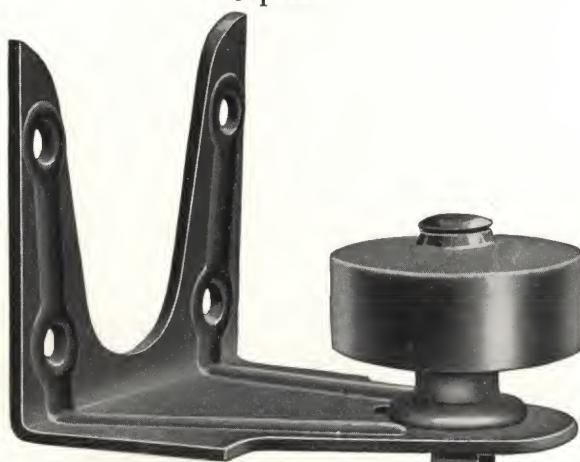
No. 65 Door Holder
Japanned



When the door swings open, the Holder catches it automatically and holds it open.

Weight, per dozen, 6 pounds.

No. 18 Stay Roller
Japanned



Reversible and Adjustable

This Stay Roller with the embossed frame has double the space between screws of any other; hence has greater bracing strength, and screws will not pull out.

The wheel has a rounded top, which prevents dirt from accumulating and clogging the wheel.

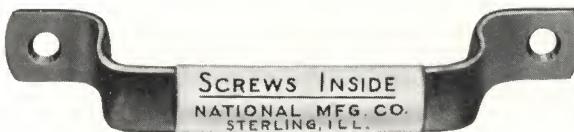
The construction of this Stay Roller prevents its working loose, as do the Screw Stay Rollers.

Weight, per dozen, 11 pounds.

BUILDERS' HARDWARE

Door Pulls

Made of Steel—Japanned

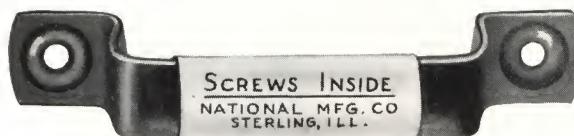


No. 4—Cut one-half size

Envelope with screws attached to each Pull.

Packed one dozen in a paper box.

Weight, per dozen, $2\frac{1}{2}$ pounds.

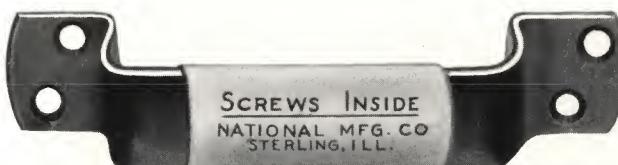


No. 5 Heavy—Cut one-half size

Envelope with screws attached to each Pull.

Packed one dozen in a paper box.

Weight, per dozen, $3\frac{1}{4}$ pounds.



No. 6 Extra Heavy—Cut one-half size

Envelope with screws attached to each Pull.

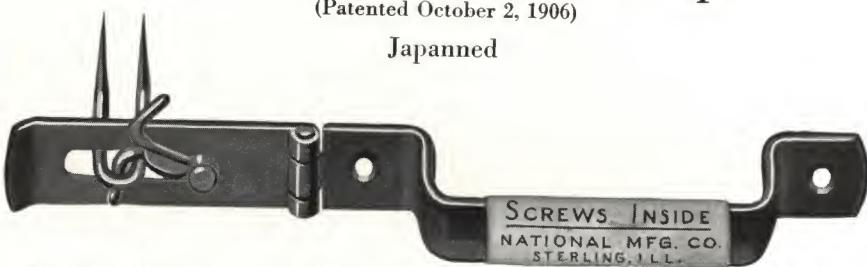
Packed one dozen in a paper box.

Weight, per dozen, $4\frac{1}{4}$ pounds.

Handle Hinge Hasp and Staple

(Patented October 2, 1906)

Japanned

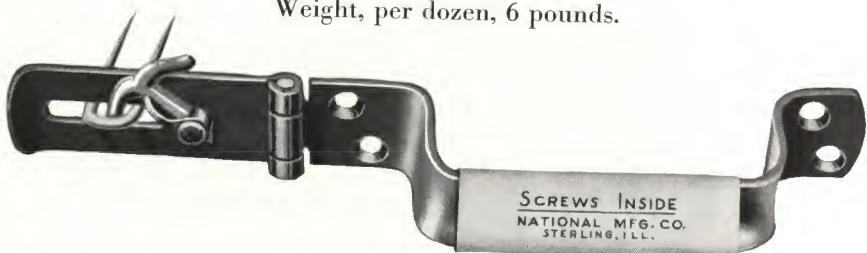


No. 2. With hook. Width, $1\frac{1}{8}$ inches.

Envelope with screws and staple attached to each Handle.

Packed one dozen in a box.

Weight, per dozen, 6 pounds.



No. 3. With hook. Width, $1\frac{3}{8}$ inches. Extra heavy. Has two screw-holes in each end.

Envelope with screws and staple attached to each Handle.

Packed one dozen in a box.

No. 2, twenty dozen in a case. No. 3, twelve dozen in a case.

Weight, per dozen, 8 pounds.

No. 35 Automatic Hasp and Staple

Self-Latching



The screws are covered when Hasp is locked. Length, 8 inches.

Packed one dozen in a box, with screws and staple.

Weight, per dozen, $5\frac{1}{2}$ pounds.

BUILDERS' HARDWARE

Hasps and Staples



Inches	Plain Steel per Dozen	Japanned per Dozen	Weight per Dozen Pounds
5	\$ 90	\$1 10	2
6	1 00	1 20	2 $\frac{1}{4}$
7	1 10	1 30	2 $\frac{3}{4}$
8	1 30	1 60	3 $\frac{1}{2}$
10	2 00	2 30	4

Packed two dozen in a box.

Hasps, Hooks and Staples



Inches	Plain Steel per Dozen	Japanned per Dozen	Weight per Dozen Pounds
5	\$1 20	\$1 40	2 $\frac{1}{2}$
6	1 40	1 65	2 $\frac{3}{4}$
7	1 60	1 90	3 $\frac{1}{4}$
8	1 80	2 10	3 $\frac{3}{4}$
10	2 50	3 00	5 $\frac{1}{2}$

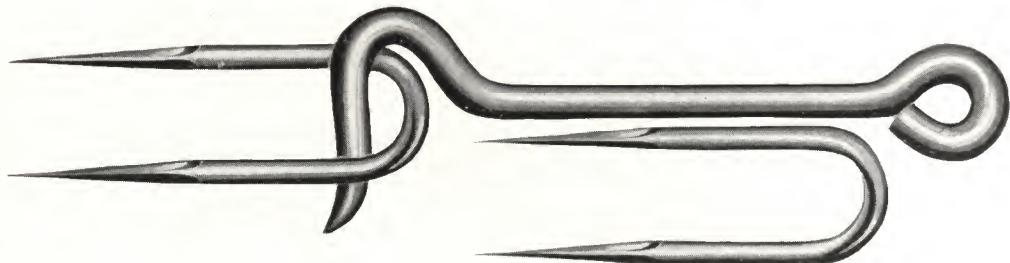
Packed one dozen in a box.

Extra Heavy

Inches	Plain Steel per Dozen	Weight per Dozen Pounds
8	\$2 70	6 $\frac{1}{4}$
10	3 75	8

Packed one dozen in a box.

Bright Wire Hooks and Staples



Length Inches	Diameter Inches	Price per Gross	Weight per Gross Pounds
4	1/4	\$15 00	20
4 1/2	1/4	16 50	21

Extra Heavy

Length Inches	Diameter Inches	Price per Gross	Weight per Gross Pounds
5	5/16	\$24 00	34
6	5/16	30 00	37 1/2

Packed one-quarter gross in a box.

Steel Staples



Length Inches	Price per Gross	Weight per Gross Pounds	Length Inches	Price per Gross	Weight per Gross Pounds
1	\$1 20	3/4	2 1/2	\$2 35	3 3/4
1 1/4	1 20	1	2 3/4	2 65	4 3/4
1 1/2	1 25	1 1/2	3	3 20	5
1 3/4	1 50	2	3 1/2	3 70	6 1/2
2	1 70	2 3/4	4	5 25	10
2 1/4	2 00	3			

Sizes 1-inch to 3-inch are packed one gross in a box; 3 1/2-inch and 4-inch, one-half gross in a box. Also packed one gross each size in a case. Weight, 45 pounds.

Safety Hasps



No. 30—Without hook. Cut full size of 4½-inch

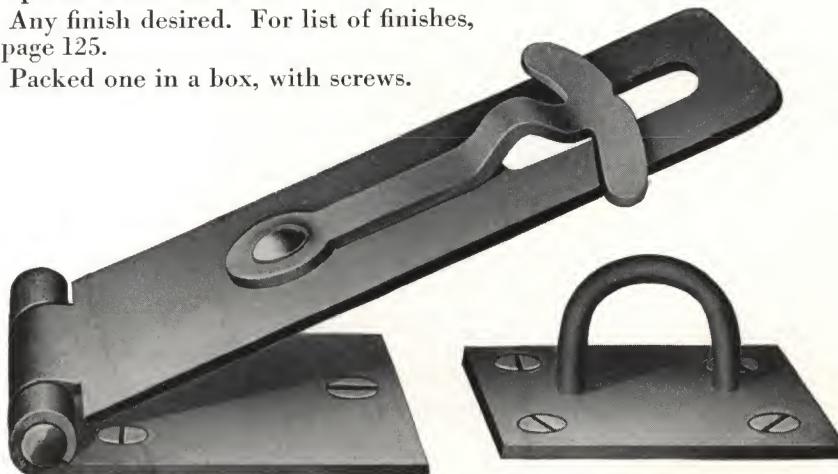
Length of Strap Inches	Width of Joint Inches	Weight per Dozen Pounds
3½	1½	3½
4½	1½	4½
6	1¾	7¾

These Hasps are made with extra large slots cut the long way of the strap. This leaves more metal around the slot and gives extra strength.

The hook on the No. 31 is of special advantage, as it holds the door closed when padlock is not in use.

Any finish desired. For list of finishes, see page 125.

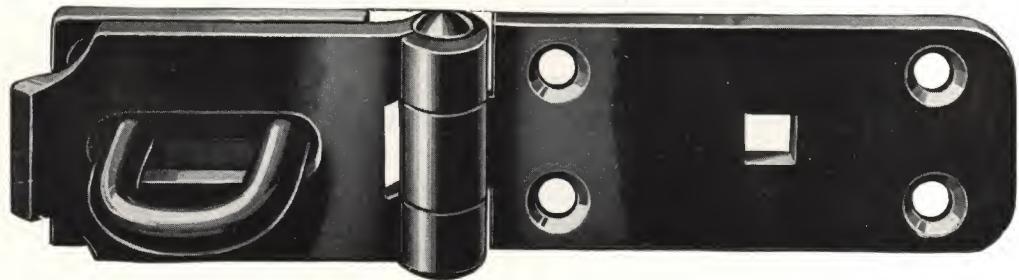
Packed one in a box, with screws.



No. 31—With hook. Cut full size of 4½-inch

Length of Strap Inches	Width of Joint Inches	Weight per Dozen Pounds
4½	1½	4¾
6	1¾	8½

No. 33 Extra Heavy Hinge Hasp



Especially adapted for use on heavy doors, such as front and rear store doors, warehouse doors, etc.

The Hasp is offset to allow for the thickness of the staple plate.

Besides the countersunk screw-holes it has a square hole for a carriage bolt, affording an unusually strong method of attaching.

Finishes: Bright Steel, Japan, Sherardized with Steel Pin, Sherardized with Brass Pin.

Packed one in a box, with screws.

Length, over all, $7\frac{1}{2}$ inches; width, $1\frac{3}{4}$ inches; thickness, $1\frac{1}{64}$ inch.

Weight, per dozen, $11\frac{3}{4}$ pounds.

BUILDERS' HARDWARE

Plate Staples



Size of Plate Inches	Projection of Staple Inches	For Hasp Inches
1 $\frac{1}{4}$ x 1 $\frac{3}{16}$	9/16	3
1 $\frac{5}{8}$ x 1 $\frac{3}{16}$	9/16	4
1 $\frac{3}{4}$ x 1 $\frac{1}{2}$	5/8	6
2 $\frac{1}{16}$ x 1 $\frac{3}{8}$	3/4	8

Hinge Hasps



Length of Strap Inches	Plain Steel per Single Dozen	Japanned per Single Dozen	Sherardized per Single Dozen	Sherardized Brass Pin per Single Dozen	Number of Dozen in Barrel—Bulk	Number of Hasps in Case—Boxed
3	\$2 10	\$2 30	\$2 30	\$3 00	220	200
4	2 45	2 75	2 80	3 80	140	200
6	3 25	3 55	4 05	5 30	75	100
8	4 95	5 45	6 20	8 00	45	100

Packed, if desired, one in a box, with screws. (See page 58.)

Light Strap Hinges



Size Closed Inches	Plain Steel per Dozen Pairs	Japanned per Dozen Pairs	Sherardized per Dozen Pairs	Sherardized Brass Pin per Dozen Pairs	Number of Dozen in Barrel—Bulk	Number of Pairs in Case—Boxed
3	\$2 00	\$2 20	\$2 30	\$2 50	185	300
4	2 70	3 00	3 30	3 65	140	300
5	2 95	3 25	4 00	4 55	75	200
6	4 20	4 65	5 70	6 45	70	200
8	5 75	6 35	8 30	9 15	35	100

Packed, if desired, one pair in a box, with screws. (See page 58.)

Heavy Strap Hinges



Size Closed Inches	Plain Steel per Dozen Pairs	Japanned per Dozen Pairs	Sherardized per Dozen Pairs	Sherardized Brass Pin per Dozen Pairs	Number of Dozen in Barrel—Bulk	Number of Pairs in Case—Boxed
4	\$ 2 75	\$ 3 05	\$ 3 45	\$ 4 40	80	100
5	3 80	4 20	5 05	6 60	65	100
6	4 65	5 10	7 35	10 05	40	100
8	7 75	8 55	12 65	16 75	24	50
10	11 90	13 10	19 20	25 80	14	50
12	18 25	20 10	30 75	38 45	5	25
14	23 60	26 00	36 35	45 70	5	25

Packed, if desired, one pair in a box, with screws. (See page 58.)

B U I L D E R S ' H A R D W A R E

Light "T" Hinges



Length of Strap Inches	Plain Steel per Dozen Pairs	Japanned per Dozen Pairs	Sherardized per Dozen Pairs	Sherardized Brass Pin per Dozen Pairs	Number of Dozen in Barrel—Bulk	Number of Pairs in Case—Boxed
3	\$2 15	\$2 35	\$ 2 50	\$ 3 40	150	200
4	2 65	2 95	3 10	4 10	120	200
5	3 25	3 60	4 00	5 15	75	150
6	3 90	4 35	4 90	6 20	65	100
8	5 15	5 70	6 80	8 80	35	100
10	7 80	8 60	10 05	12 65	26	50

Packed, if desired, one pair in a box, with screws. (See page 58.)

Extra Heavy "T" Hinges



Length of Strap Inches	Plain Steel per Dozen Pairs	Japanned per Dozen Pairs	Sherardized per Dozen Pairs	Sherardized Brass Pin per Dozen Pairs	Number of Dozen in Barrel—Bulk	Number of Pairs in Case—Boxed
4	\$ 4 25	\$ 4 70	\$ 5 15	\$ 7 65	48	100
5	4 50	4 95	6 30	10 60	35	100
6	5 65	6 20	8 60	15 45	25	100
8	9 65	10 60	14 70	24 95	15	50
10	13 75	15 15	20 70	34 90	9	50
12	20 00	22 00	30 60	51 25	5	25
14	24 00	26 40	36 55	58 15	5	25

Packed, if desired, one pair in a box, with screws. (See page 58.)

Method of Packing Strap and "T" Hinges and Hinge Hasps with Screws



The above illustrations give a clear idea of our method of packing Strap and "T" Hinges and Hinge Hasps in individual cartons.

Each carton is securely sealed with gummed tape, which makes it easy to handle and prevents loss of screws. The tapes also indicate instantly whether or not a package has been opened.

Prevents sending out broken packages and saves time in invoicing, as broken packages are "spotted" at a glance.



No. 846 Offset Garage Surface Hinge

The No. 846 Hinge is suitable for use on folding garage doors which are hung on the outside of the building. In such construction an offset is necessary to accommodate the foot and chain bolts when the doors are folded.

With this hinge an offset of $2\frac{1}{4}$ inches is produced.

Packed one pair in a box, with screws.

Japan finish only.

Size, $4\frac{1}{2} \times 5\frac{1}{4}$ inches. Weight, per dozen pairs, 33 pounds.

No. 840 Reversible "T" Hinge
For Garage Doors



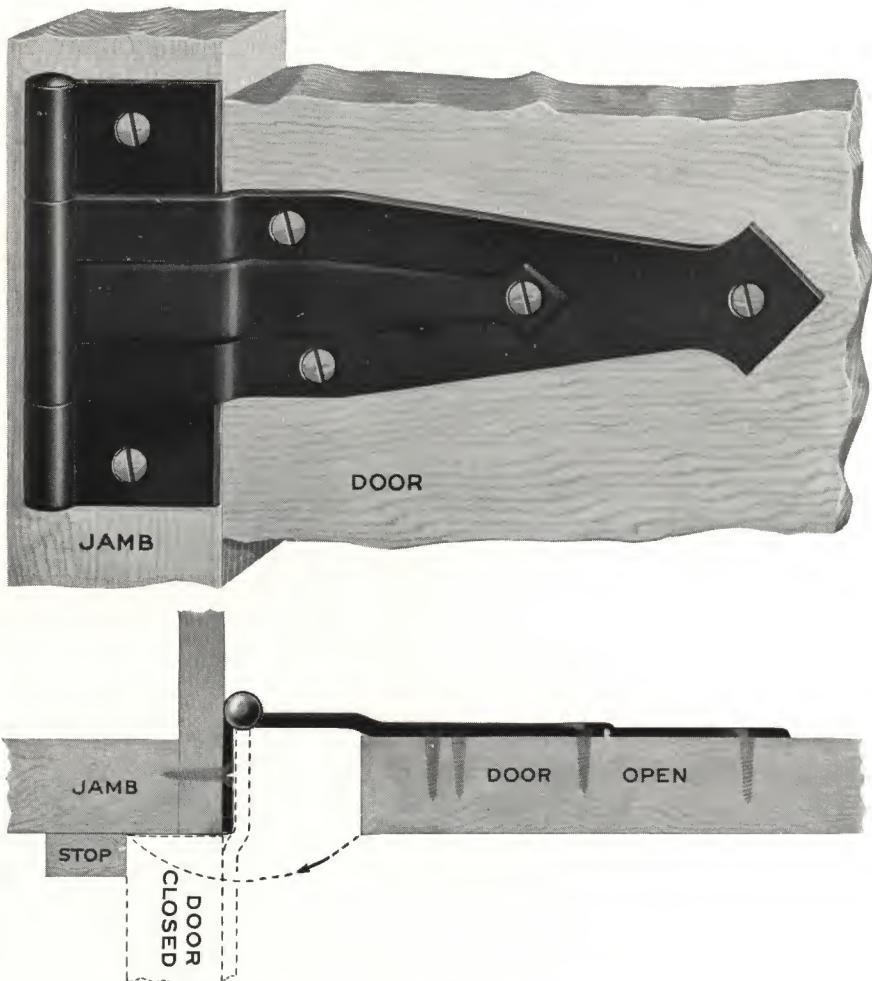
This hinge is made especially for use on garage doors. It has a loose pin and can be reversed and used as a full surface hinge or mortised into the jamb when brick construction is used.

The following finishes are carried regularly in stock: Bright Steel, Japan, Dead Black Japan, Sherardized with Steel Pin, Sherardized and Dead Black Japan with Steel Pin.

Packed one pair in a box with screws. (See page 58.)

Size Inches	Weight per Dozen Pairs Pounds
6	24
8	39
10	55½

No. 841 Offset Garage Hinge



Made with offset to swing doors clear of opening. See lower illustration.
Embossed leaf adds to attractiveness and strength of hinge.
Packed one pair in a box with screws. (See page 58.)
Japan finish only.
Size, 10-inch.

Weight, per dozen pairs, 43½ pounds.

No. 842 Ornamental Garage Hinge



Made with a loose pin so that the "T" part can be reversed and used as a full surface hinge or mortised into the jamb when brick construction is used.

The embossed leaf adds to the attractiveness and strength of the hinge.

After hinge is placed in position, the end of pin can be slightly riveted to prevent its removal.

Packed one pair in a box with screws. (See page 58.)

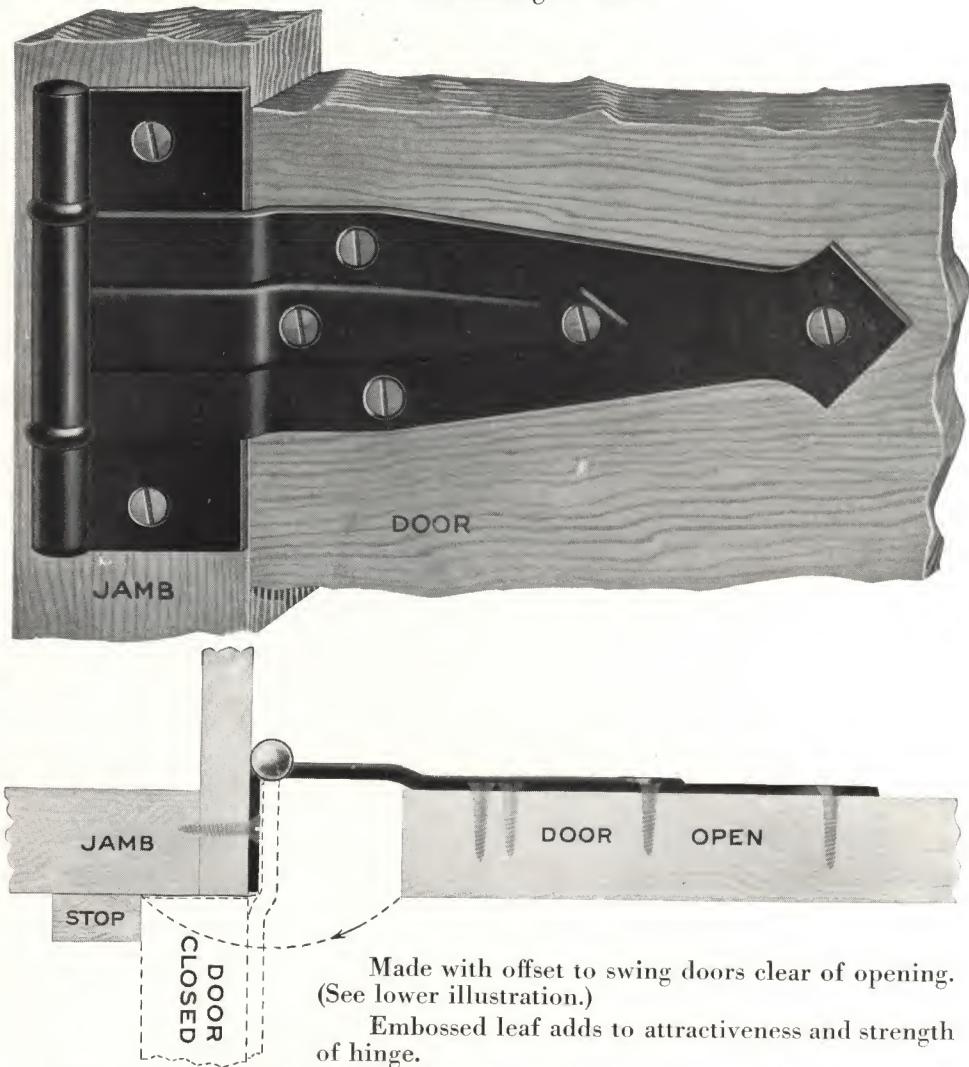
Japan finish only.

Size 6-inch made with tight pin only. Weight, per dozen pairs, 17½ pounds.

Size, 10-inch. Weight, per dozen pairs, 43¾ pounds.

No. 843 Offset Garage Hinge

Hardened Bearing Washers



Made with offset to swing doors clear of opening.
(See lower illustration.)

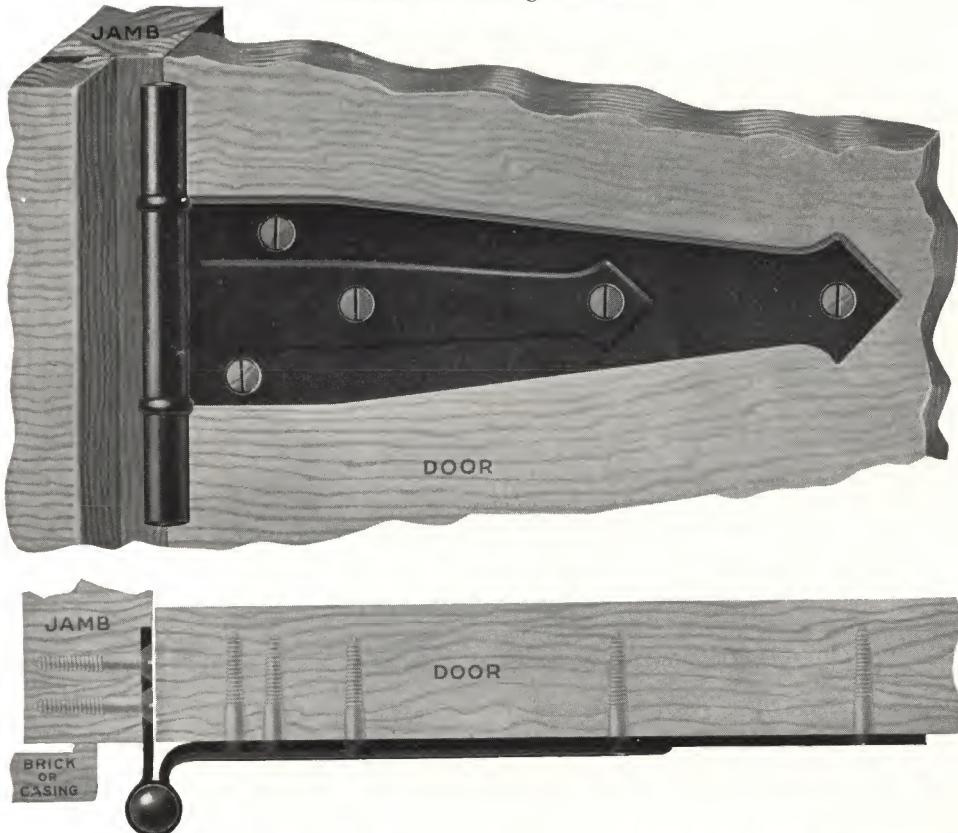
Embossed leaf adds to attractiveness and strength
of hinge.

Three holes in leaf are punched square and countersunk so bolts or screws
can be used as desired.

Packed one pair in a box with screws. (See page 58.)
Japan finish only.

Size Inches	Weight per Dozen Pairs Pounds
12	76½
18	84
24	124

No. 844 Ornamental Garage Hinge
Hardened Bearing Washers



Made with an offset. Can be used on either brick or frame construction.

The embossed leaf adds to the attractiveness and strength of the hinge.

Three holes in leaf are punched square and countersunk so bolts or screws can be used as desired.

Packed one pair in a box with screws. (See page 58.)

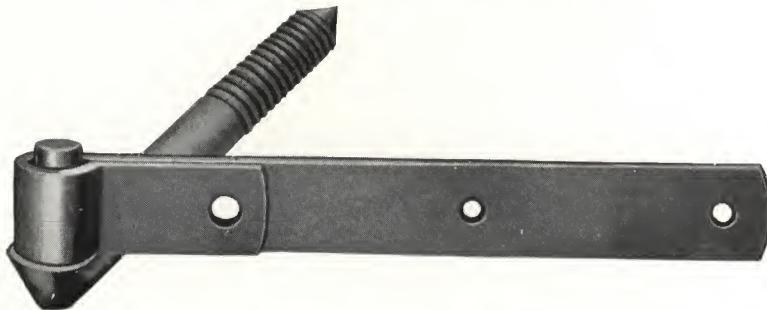
Japan finish only.

Size Inches	Weight per Dozen Pairs Pounds
12	78
18	98½
24	124½

Screw Hook and Strap Hinges

Plain Steel

Rolled Threads Cold Rolled Joints



Comparative test for tensile strength, from a test made by United States Government Official:

Hot rolled soft steel, average pounds per square inch, 60,000
Cold rolled soft steel, actual pounds per square inch, 99,510

Length of Strap Inches	Approximate Weight per Dozen Pairs	Length of Strap Inches	Approximate Weight per Dozen Pairs
6	22	18	94
8	25	20	99
10	38	22	127
12	46	24	138
14	73	30	162
16	77	36	180

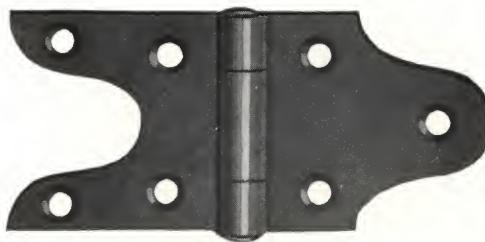
Steel Screw Hooks

Rolled Threads Extra Good Points

Diameter Inches	Length Inches	For Screw Hook and Strap Hinges Inches
$\frac{1}{2}$	4	6, 8
$\frac{5}{8}$	5	10, 12
$\frac{3}{4}$	6	14, 16, 18, 20,
$\frac{7}{8}$	$7\frac{1}{2}$	22, 24, 30, 36

Special Hinges

Plain Steel, Japanned or Sherardized



Half size of No. 22

Number	Length Open Inches	Width Inches	Weight per Dozen Pairs Pounds
21	3 $\frac{3}{4}$	1 $\frac{3}{4}$	4 $\frac{1}{4}$
22	5	2 $\frac{1}{4}$	7 $\frac{3}{4}$
23	6 $\frac{1}{4}$	2 $\frac{3}{4}$	11 $\frac{1}{2}$

Nos. 21 and 22, plain steel, packed one dozen pairs in a bundle.

No. 23, plain steel, packed one-quarter dozen pairs in a bundle.

Nos. 21, 22 and 23, Sherardized, packed one pair in a box, with screws.

Japanned hinges are packed with screws only when so ordered.

Steel Washers

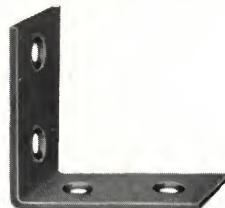


Sizes: $\frac{1}{4}$ -inch, $\frac{3}{8}$ -inch and $\frac{1}{2}$ -inch.

Packed in 5-pound packages.

No. 115 Corner Iron

Plain Steel or Sherardized



Length of Sides Inches	Width Inches	Number of Holes	Length of Sides Inches	Width Inches	Number of Holes
1 x 1	1/2	2	3 1/2 x 3 1/2	3/4	4
1 1/2 x 1 1/2	5/8	4	4 x 4	7/8	4
2 x 2	5/8	4	5 x 5	7/8	6
			6 x 6	1 1/8	6
2 x 2	7/8	4	8 x 8	1 1/4	6
2 1/2 x 2 1/2	5/8	4	10 x 10	1 1/4	10
3 x 3	3/4	4			

Sizes up to and including 2 1/2 x 2 1/2 x 5/8-inch packed three dozen in a box.
Larger sizes packed one dozen in a bundle.

No. 117 Flat Corner Iron

Plain Steel or Sherardized



Length of Sides Inches	Width Inches	Number of Holes
2 x 2	3/8	4
2 1/2 x 2 1/2	3/8	4
2 1/2 x 2 1/2	1/2	4
3 x 3	1/2	4
3 x 3	5/8	4
3 1/2 x 3 1/2	1/2	4
3 1/2 x 3 1/2	5/8	4
3 1/2 x 3 1/2	3/4	4
4 x 4	3/4	4
5 x 5	7/8	4
6 x 6	1	6

Sizes up to and including 4 x 4 x 3/4-inch packed three dozen in a box.
Larger sizes packed two dozen in a box.

No. 118 Mending Plate
Plain Steel



Length Inches	Width Inches	Number of Holes
2	$\frac{1}{2}$	2
3	$5\frac{5}{8}$	4
4	$5\frac{5}{8}$	4
4	$7\frac{7}{8}$	4
5	$5\frac{5}{8}$	4
6	$3\frac{3}{4}$	4
8	$7\frac{7}{8}$	4
10	$7\frac{7}{8}$	6
12	1	6

First four sizes packed three dozen in a box.
Larger sizes packed one dozen in a bundle.

No. 119 Steel Tie Plate
Plain Steel or Japanned



Cut full size

Packed one dozen in a bundle. Weight, per dozen, $\frac{3}{4}$ pound.

No. 120 Steel Angle Brace
Plain Steel or Japanned



Cut two-thirds size

Japanned, packed one dozen in a box. Plain steel, in bulk.
Weight, per dozen, $\frac{3}{4}$ pound.

No. 61 "Self-Cleaner" Pressed Steel Foot Scraper
Japanned or Sherardized



This Scraper extends out over the end of the step, so that the dirt will drop down and not gather around the Scraper.

Envelope with screws attached to each Scraper.

Packed one dozen in a box. Weight, per dozen, $6\frac{3}{4}$ pounds.

No. 62 "Upright" Pressed Steel Foot Scraper
Japanned or Sherardized

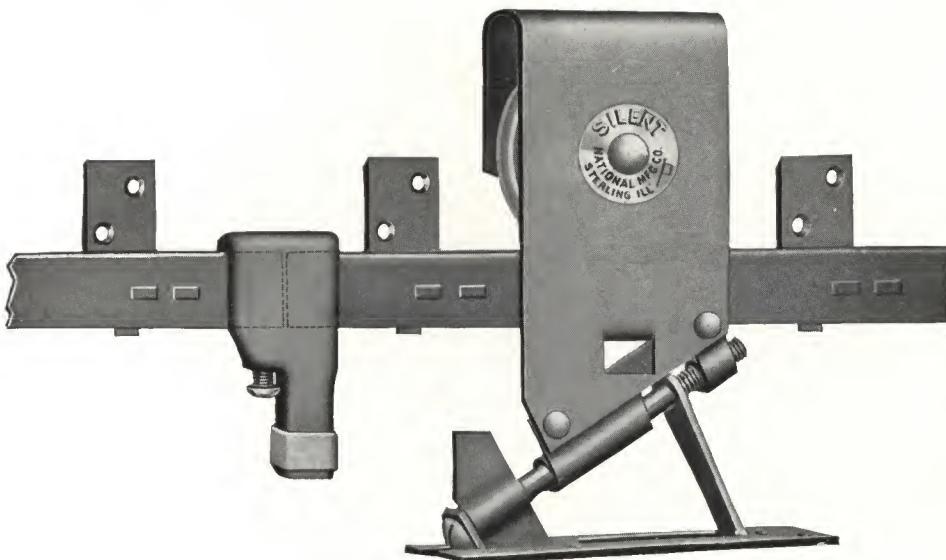


Can be used on wood or embedded in cement.

Envelope with screws attached to each Scraper.

Packed one dozen in a box. Weight, per dozen, $7\frac{1}{4}$ pounds.

No. 82 "Silent" Parlor Door Hanger



Cut shows a left-hand Hanger

A "Silent" Parlor Door Hanger in name and in fact. Extremely simple in construction, with no complicated parts to get out of order.

Doors are easily hung with this Hanger, as it has a flexible hinge-joint which permits the Hanger to adjust itself to the top of the door, whether square or not. The full weight of the door rests on the adjusting-screw, which is extra heavy and long, and will never work loose and permit the door to drop down as do the short adjusting-screws. This is further prevented by a sort of spring lock-nut at the end of the adjusting-screw. The wheel has a vulcanized-fiber tread and is supplied with roller bearings. For sectional view of bearings, see illustration on page 21.

Each set is packed complete with screws, stop and guides. With single sets the stop is not necessary.

Double sets complete with 14-foot track.

Single sets complete with 8-foot track.

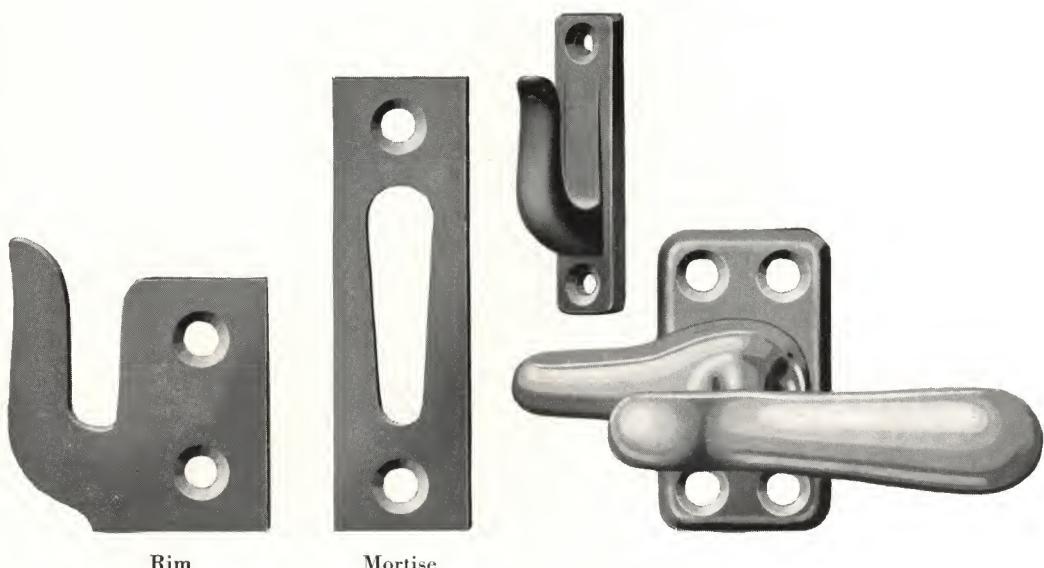
Fifteen double sets in a case.

Thirty single sets in a case.

Weight, per double set, 25 pounds.

Weight, per single set, 15 pounds.

Casement Window Fastener



Rim

Mortise

750R—with rim strike.

750M—with mortise strike.

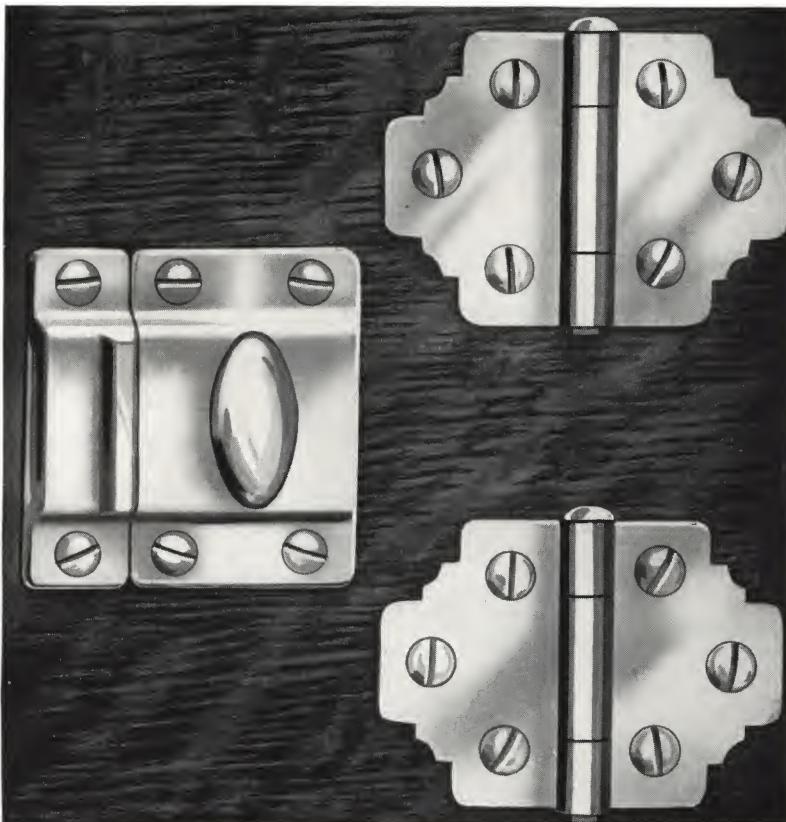
750S—with surface strike.

Furnished in any finish desired. (For list of finishes see page 125.)

Packed regularly with rim strikes, one dozen in a box, with screws.
Mortise or surface strike will be furnished if so specified when ordering.

Weight, per dozen, 3 $\frac{3}{4}$ pounds.

No. 725 Cabinet Door Set



Cut full size

This set consists of one pair 1½-inch No. 405 Ornamental Hinges and one only No. 699 Cupboard Turn.

It is suitable for use on medicine cabinets, china cabinets, kitchen cabinets, linen cabinets, etc.

Each set is wrapped in a separate package, with screws. One dozen sets in a box.

Any finish desired. For list of finishes see page 125.

Weight, per dozen sets, 3 pounds.

No. 70 Cellar Window Set



Cut full size

This set consists of the following articles:

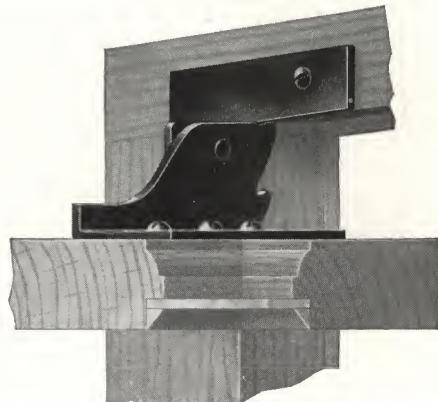
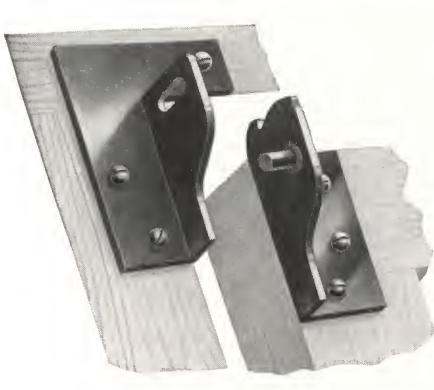
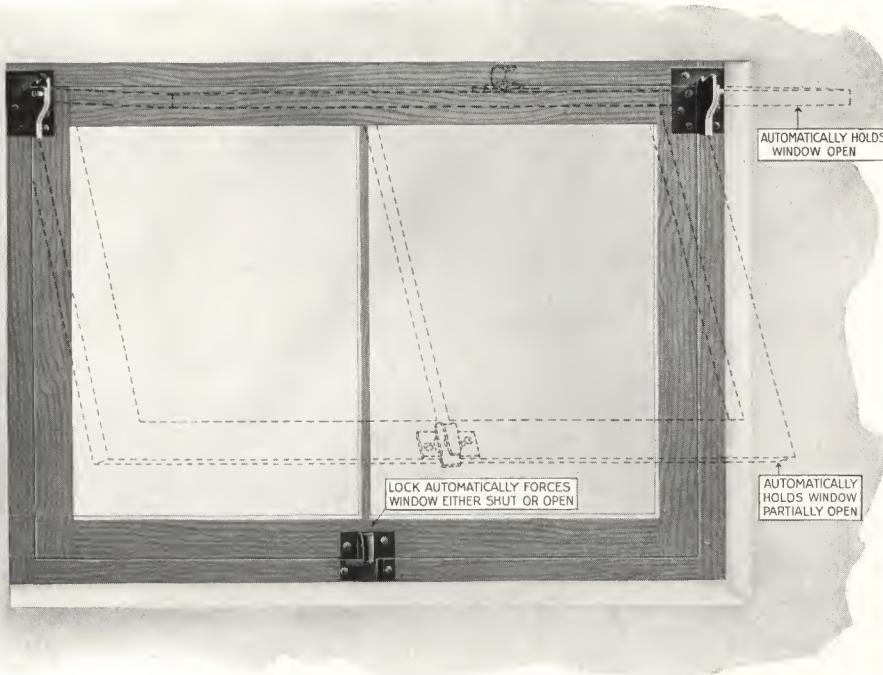
- One pair 2 x 2-inch Tight-Pin Butts
- One only 2 1/2-inch Hook and Eye
- One only No. 600 "All-Steel" Sash Lock

All parts are heavily Sherardized to prevent rust. Also furnished in Japan finish, when so ordered.

A sample set mounted as illustrated when requested. One set, with screws, is packed in a carton. One dozen sets in a box. Twelve dozen in a case.

Weight, per dozen sets, 5 3/4 pounds.

No. 71 Automatic Cellar Window Set

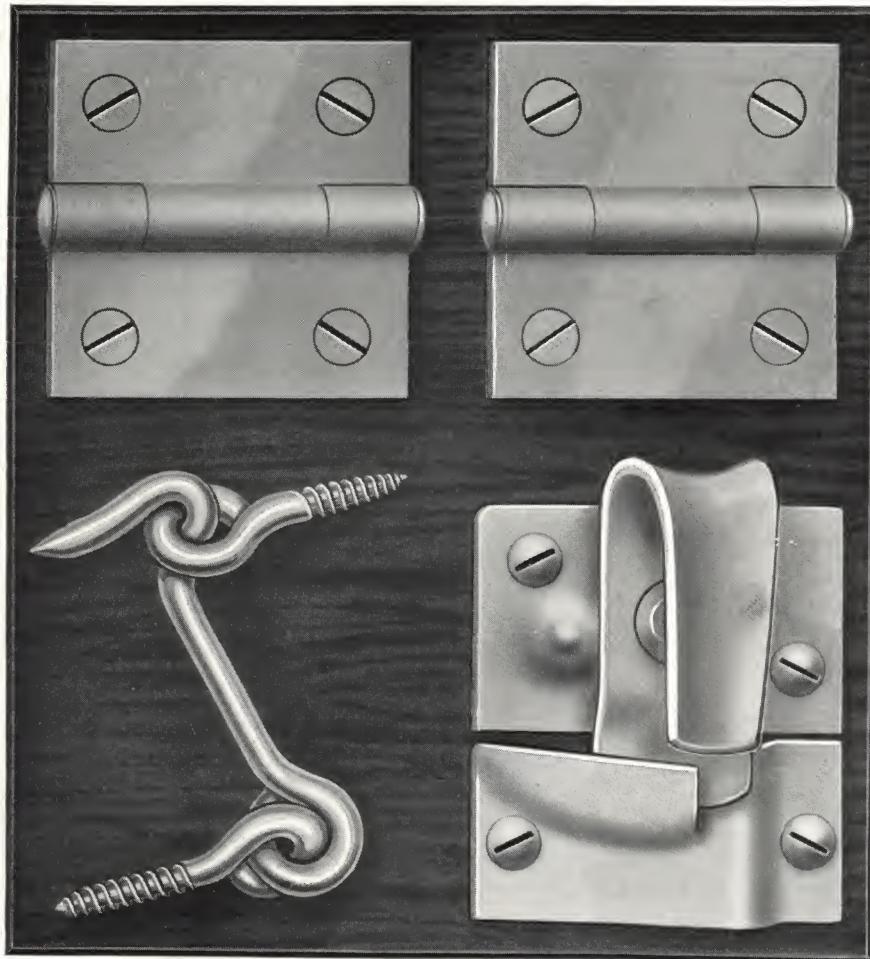


In addition to the good features illustrated, the handle of lock is so formed as to give a liberal handhold to open window.

Furnished either japanned or sherardized. A sample set mounted when requested. One set, with screws, is packed in a carton. One dozen sets in a box. Twelve dozen in a case.

Weight, per dozen, $7\frac{1}{2}$ pounds.

No. 72 Cellar Window Set



This Set consists of the following articles:

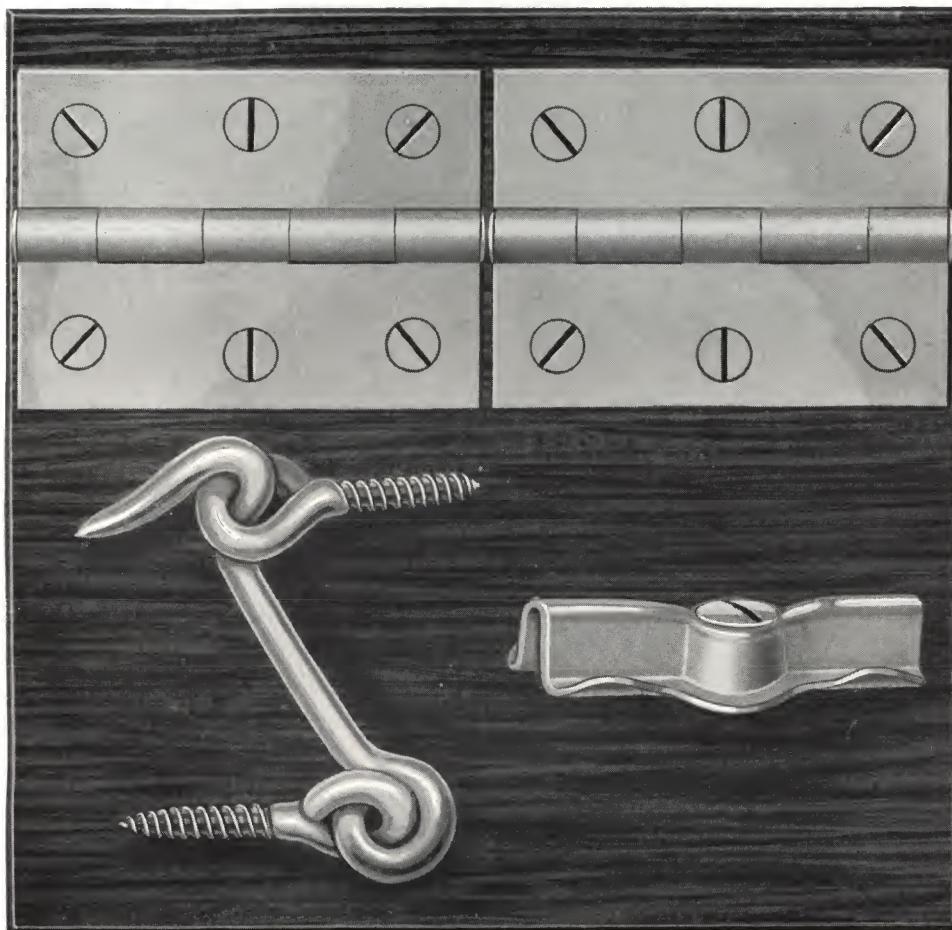
- One pair 2 x 2-inch Tight-Pin Butts.
- One only 2 1/2-inch Hook and Eye.
- One only No. 610 Sash Lock.

All parts are heavily Sherardized to prevent rust. Also furnished in Japan finish, when so ordered.

A sample set mounted as illustrated when requested. One set, with screws, is packed in a carton. One dozen sets in a box. Twelve dozen in a case.

Weight, per dozen sets, 7 pounds.

No. 73 Cellar Window Set



Cut full size

This Set consists of the following articles:

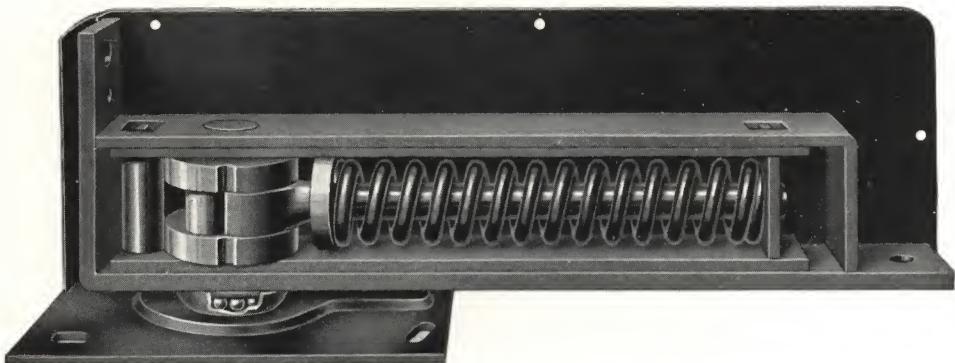
- One pair 2½-inch No. 518 T. P. Light Narrow Butts.
- One only 2½-inch Hook and Eye.
- One only No. 83 Turn Button.

This set is furnished with Japanned Butts, Sherardized Turn Button and Nickel Plated Hook and Eye, or completely Sherardized.

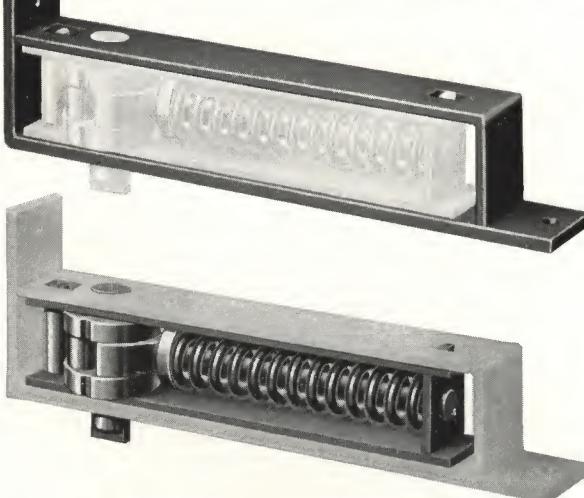
A sample set mounted as illustrated when requested. One set, with screws, is packed in a carton. One dozen sets in a box. Twelve dozen in a case.

Weight, per dozen sets, 4 pounds.

No. 240 Ball-Bearing Floor Hinge

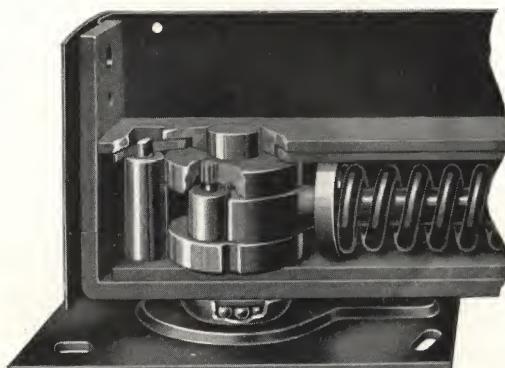


View of Hinge, showing one Side Plate, Back Plate and Floor Plate attached.



Dark part carries the weight of the door independent of the spring-closing feature.

Dark part shows the spring-closing feature independent of the part which carries the weight of the door.



Sectional view, showing construction of bearings and the case-hardened roller at left which absorbs spring pressure.

No. 240 Ball-Bearing Floor Hinge

View showing how pivot for top of door and pivot plate are attached. No chiseling, mortising or measuring required. This is a real time- and labor-saving feature.

The illustrations on this page and the opposite page show our Ball-Bearing Floor Hinge.

The construction of this Floor Hinge is radically different from other floor hinges. The part which bears the weight of the door and the spring-closing feature are independent of each other, although necessarily combined.

The spring pressure and not the weight of the door causes the wear in all spring hinges.

In this Hinge the pressure of the spring is not against the hinge bearing which carries the door, but is absorbed by a 1-inch case-hardened roller, which prevents wear on the hinge bearing. This Hinge will always keep the door firmly in center of opening when at rest, as there is no possibility of wear in the hinge bearing.

In the typical floor hinge, the maximum pressure of the spring against the bearing carrying the weight of the door is, we found by actual test, 300 pounds. The pressure on this bearing in our Hinge is about 10 pounds, a saving in wear and tear in favor of our Hinge in the ratio of 30 pounds to one.

The pivot for the top is attached by simply boring five $\frac{7}{8}$ -inch holes. Requires no chiseling.

The construction of pivot plate for head jamb is unique. Simply placing end against jamb and inserting three screws brings bearing portion into correct position. No mortising or measuring required. This is one of the greatest labor-saving features of this Hinge, and appeals immediately to the contractor.

Reversible side plates are furnished with this Hinge. They avoid the necessity of stocking both right- and left-hand plates in various finishes.

The screw slots in floor plate are so placed as to provide for an adjustment to secure proper alignment.

The door is held open, when swung to either side, 95 degrees.

The spring is oil tempered. Ball bearings of the very best quality are used.

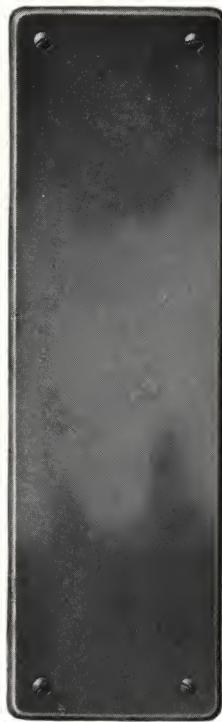
For doors $1\frac{1}{8}$ inches to $2\frac{1}{4}$ inches thick.

Any finish desired. For list of finishes, see page 125.

Packed one complete Hinge, with all necessary parts, in a box with illustrated directions for attaching. One dozen in a case.

Weight, each, $3\frac{3}{4}$ pounds; case, 50 pounds.

Push Plates



No. 220

Wrought Steel



No. 225

Wrought Steel or Solid Brass

The edges of the No. 220 design are nicely rounded and unusually deep drawn, which gives the plate an attractive and massive appearance.

The wide, beveled edges of the No. 225 design harmonize nicely with beveled edge escutcheon plates and half surface butts.

Each plate is slightly bowed. This feature insures the center as well as the ends of the plate being drawn close to the door when the screws are inserted.

Each plate is highly polished and plated. Any finish desired. For list of finishes see page 125.

Each plate is wrapped separately in anti-tarnish paper, with $\frac{5}{8}$ x 6 oval-head screws.

One-half dozen in a box.

Size of plate, 3 x 10 inches.

Weight, per dozen, $5\frac{1}{4}$ pounds.

Bright Wire Hooks and Eyes



List Prices per Gross

Length Inches	Bright Steel	Weight per Gross Pounds
1	\$ 6 50	2½
1½	6 50	3½
2	8 00	4½
2½	10 00	6¼
3	12 00	9½
3½	14 50	12
4	17 00	12½

Packed as follows: 1-inch and 1½-inch, one gross in a box;
2-inch to 4-inch, one-half gross in a box.

Perfect Door and Gate Spring
Japanned or Plated



Number	Weight per Dozen Pounds
1	1 ¾
2	2
3	2 ¾
4	3
5	3 ¼
6	4 ¼
7	5

Nos. 1, 2 and 7 are not furnished in plated finishes.
Packed one dozen in a box, with hooks.

No. 90 Screen and Storm Door Set



Cut one-half size

The combination Screen Set here illustrated is the most durable and practical set on the market. The hinges are of steel, size $3 \times 2\frac{1}{2}$ inches. They are also loose-pin, so that it is not necessary to remove any screws when taking down the door. An offset hinge can be obtained by removing the pin and reversing one leaf. The pull is $4\frac{1}{2}$ inches long, made of steel and very neat.

No. 3 Perfect Spring, with loop ends, packed with each set. Nickeled screws and hooks and eyes are packed with the japanned sets.

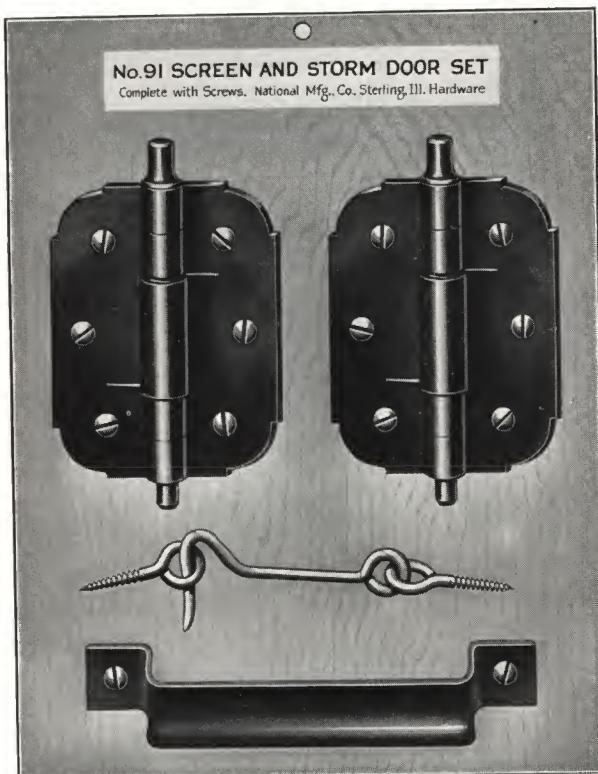
No. 200 Door Pull is packed with this set in all plated finishes.

A sample set mounted as illustrated when requested. One set, with screws, is packed in a carton, and one dozen sets in a box. Twelve dozen sets in a case.

Any finish desired. For list of finishes, see page 125.

Weight, per dozen sets, 12 pounds.

No. 91 Screen and Storm Door Set



This set consists of the following:

1 pair No. 122 Loose Pin Spring Hinges. Made of steel. Music wire spring. Hinge operates with or without spring. Door can be taken down without removing screws.

1 only 4½-inch No. 205 Steel Door Pull.

1 only 2½-inch Hook and Eye.

No. 200 Pull packed with plated sets.

A sample set mounted as illustrated when requested.

Packed one set in a carton, with screws, one dozen sets in a box. Twelve dozen sets in a case.

Any finish desired. For list of finishes, see page 125.

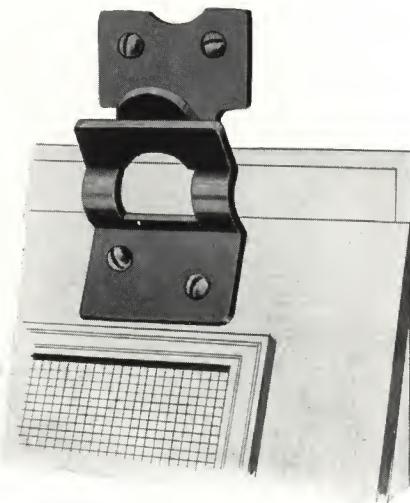
Weight, per dozen sets, 8½ pounds.

NATIONAL MANUFACTURING COMPANY
STERLING, ILLINOIS

No. 80 Screen and Storm Sash Hanger

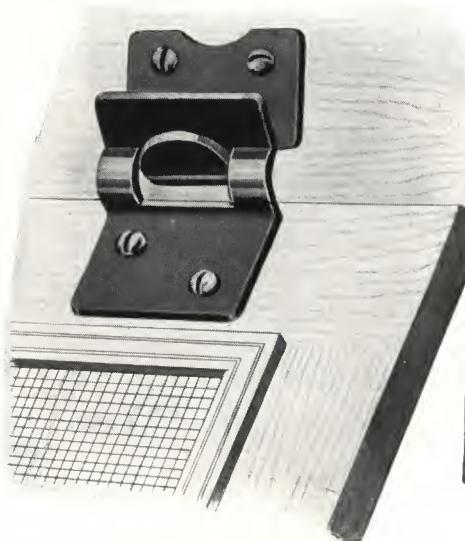
(Patented February 27, 1912)

Wrought Steel



First position

Place opening in Hanger level with top of sash.



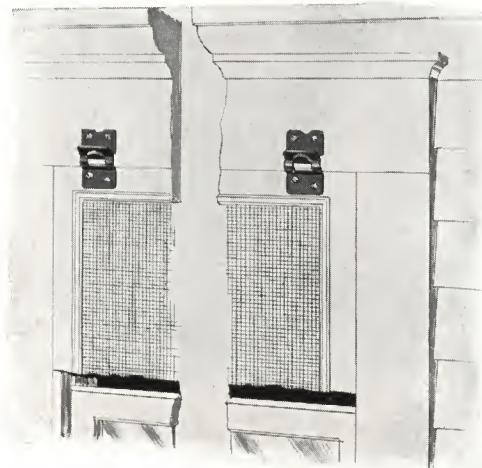
Second position

(For description, see opposite page.)

No. 80 Screen and Storm Sash Hanger

(Patented February 27, 1912)

Wrought Steel



Third position

The three illustrations on these two pages represent our Screen and Storm Sash Hanger in the three positions which it assumes when hanging the screen or sash.

First—The top of screen rests against blind-stop inside of casing, which serves as a guide when sliding Hanger up to engage hook on casing at top. (See first illustration.)

Second—The bottom of screen or sash is pushed out until frame on screen or sash slides over hook on casing and latches automatically. (See second illustration.)

Third—The Hangers are so constructed that they hold the screen or sash firmly in position and prevent rattling. (See third illustration.)

To attach the Hangers, first attach the bottom piece to the screen or sash and then fasten the hook on casing.

Each set is wrapped in a separate package complete with *sherardized* screws.

The Hangers are furnished japanned or *sherardized*. Packed one dozen sets in a box. Thirty-six dozen sets in a case.

Extra bottoms can be furnished, packed two dozen sets in a box, with screws.

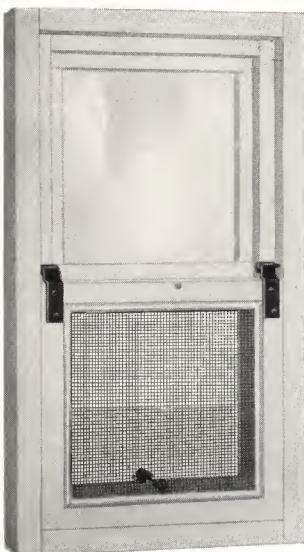
A working model is furnished free with the first order.

Weight, per dozen sets, steel, $2\frac{3}{4}$ pounds.

Weight, extra bottoms, two dozen, $3\frac{1}{4}$ pounds.

No. 81 Screen Hanger

For Half Length Screens



A simple, convenient device for hanging half length screens. Easy to attach.

Screens can be hung or removed from inside of room.

Furnished in Sherardized finish only.

Each complete set, with 1½-inch hook and eye, wrapped separately.

Packed one dozen sets in a box. Three gross in a case.

Weight, per dozen sets, 1¼ pounds.

No. 83 Turn Button

(Patent applied for)

This Turn Button is so formed that the only point of contact on the window frame is at the circular base around the screw hole. The wings are raised slightly above the base and the edges are curved up so that in turning it will never gouge into the wood.



Cut full size

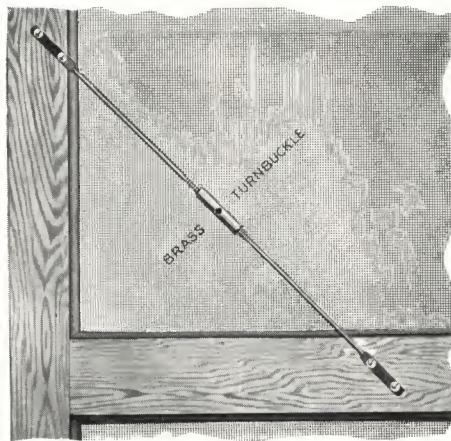
Made only in Sherardized finish, which being rust proof will prevent the appearance of rust streaks on the window frame.

Packed either one gross in a box with 1x7 Sherardized oval-head screws, or, one gross in a box without screws. Shipped with screws unless otherwise specified because of the convenience afforded dealers when selling the item to the consumer.

Made in 2-inch size only. Twenty gross in a case.

Weight, with screws, 3¾ pounds; without screws, 3¼ pounds.

No. 195 Screen Door Turnbuckle



Our Turnbuckles are made extra long, giving additional leverage to raise the door. They can be used on either screen or storm doors. The end pieces are of steel, with a *brass* Turnbuckle in the center. As brass will not rust to steel, the Turnbuckle can be easily operated at any time.

They are packed with nickelized screws, one complete Turnbuckle in a specially printed envelope, one dozen in a box. Sixty dozen in a case.

A handsome enamel stamped display card is furnished free of charge with the first order.

Length, 14½ inches. Any finish desired. For list of finishes, see page 125.

Weight, per dozen, 1½ pounds.

No. 196 Turnbuckle



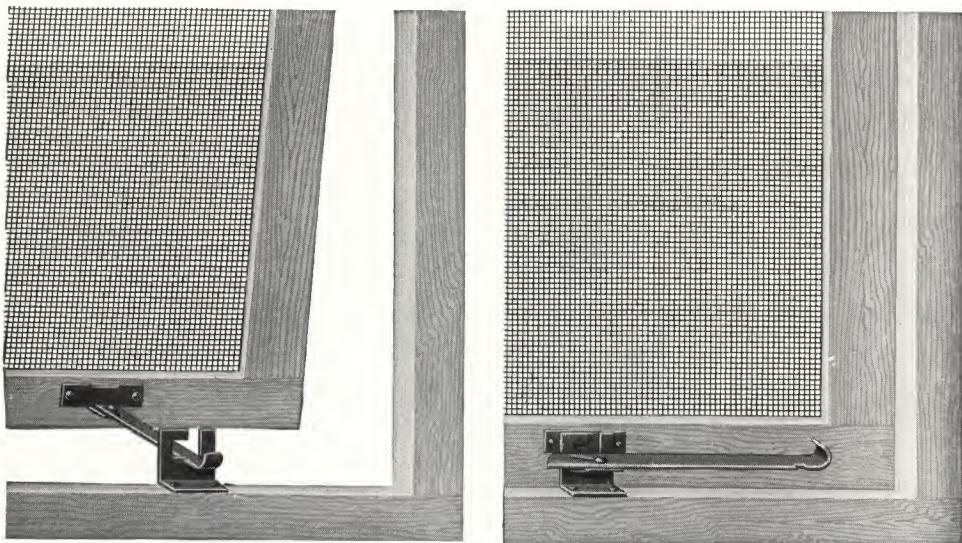
Made extra heavy. Used extensively by auto top manufacturers for winter tops.

Packed with nickelized screws, one dozen in a box.

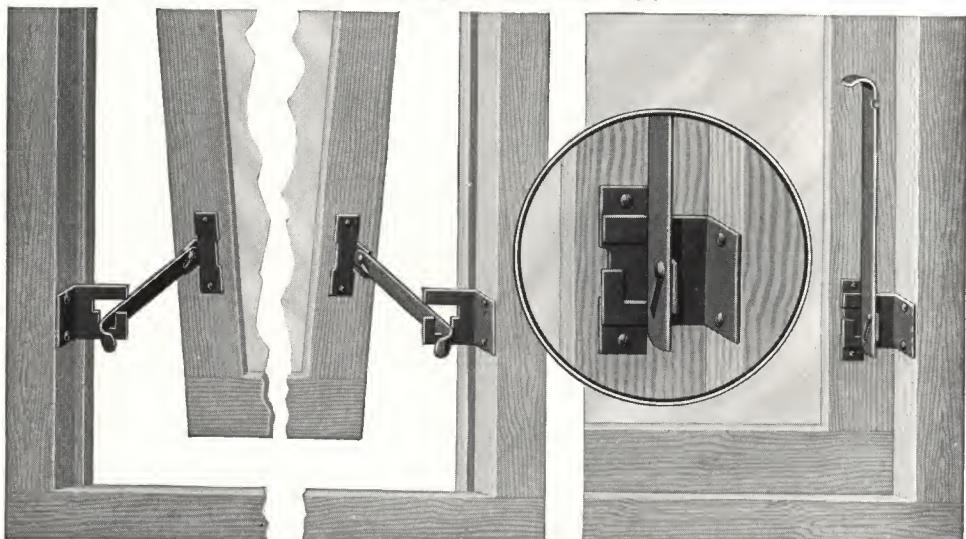
Any finish desired. For list of finishes, see page 125.

Length Inches	Weight per Dozen
16	2¾
50	7½

No. 85 Screen and Storm Sash Adjuster



WHEN USED ON SCREEN



WHEN USED ON STORM SASH



(For description, see opposite page.)

No. 85 Screen and Storm Sash Adjuster

Here, at last, is an Adjuster for screen or storm sash that does its work effectively and without rattling.

The illustrations on the opposite page show the Adjuster in the positions it assumes when screen or storm sash is opened and closed; also the positions in which the Adjuster is placed when used with screen or sash.

The illustration at the bottom of the opposite page is an enlarged view of the Adjuster, and shows the peculiar construction of the joint which prevents rattling.

Either one or two can be used with screens. When one only is used, either right or left, it is placed in center of sill. (See upper illustrations.) With storm sash, one is used on each side. (See lower illustrations.)

When closed, the Adjuster locks the screen or storm sash securely in position.

The slot in bar which holds sash open is wedge-shaped, and keeps sash firmly in position. The more pressure on the bar the firmer the wedge-shaped slot is fixed in position.

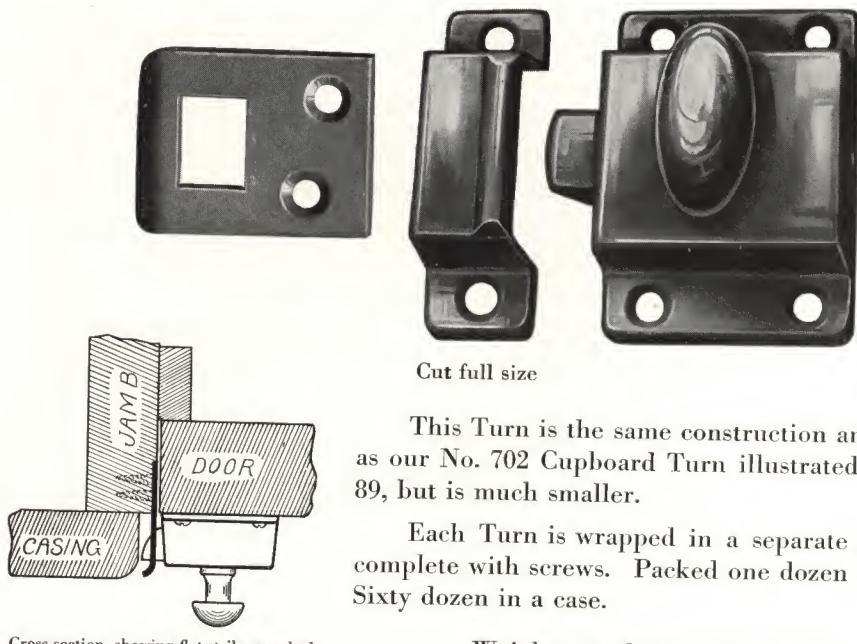
The curved end on the bar prevents pushing sash too far out at the bottom.

Length, 10 inches. Made entirely of steel. Furnished in japanned or sherardized finish. The *sherardized* finish is especially recommended, as it is proof against rust and will give longer and more satisfying service.

Packed one pair—one right and one left—in an envelope, with screws. Envelope printed with illustrated instructions for attaching. One dozen pairs in a box. Twelve dozen pairs in a case.

Weight, per dozen pairs, $6\frac{1}{4}$ pounds.

No. 699 Pressed Steel or Brass Cupboard Turn



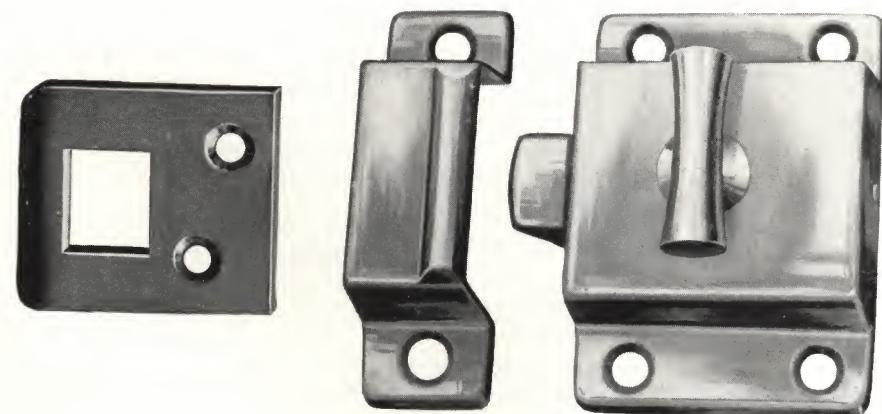
Cut full size

This Turn is the same construction and design as our No. 702 Cupboard Turn illustrated on page 89, but is much smaller.

Each Turn is wrapped in a separate package, complete with screws. Packed one dozen in a box. Sixty dozen in a case.

Weight, per dozen, $1\frac{1}{4}$ pounds.

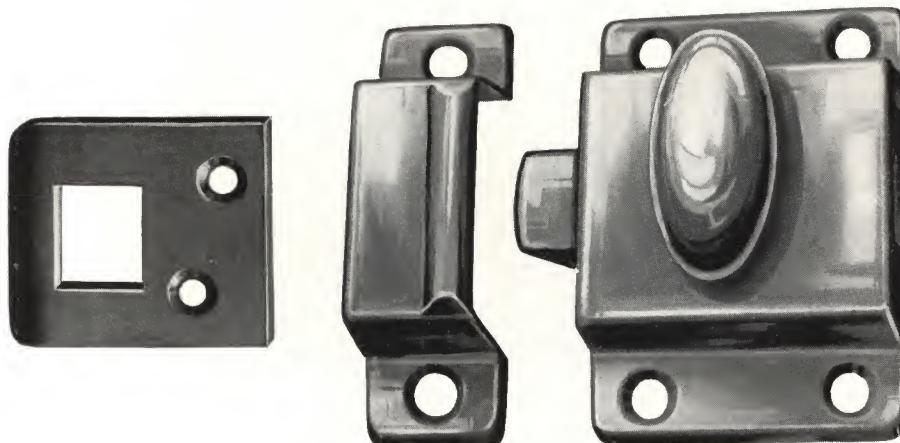
No. 700 Pressed Steel or Brass Cupboard Turn



"T" Knob—Cut full size

(For description, see page 89.)

No. 702 Pressed Steel or Brass Cupboard Turn



Oval Knob—Cut full size

The above cut, together with the two on page 88, illustrates our three designs in Cupboard Turns.

The following are points of merit:

They are made of cold rolled steel and also of solid brass.

The No. 702 Pressed Steel Turn has a solid brass top on knob.

The bolt has a rounded point same as high-grade door locks.

The strike has a rounded top, providing a roller-shaped bearing on which bolt works easily.

A flat strike, as illustrated opposite the Nos. 699, 700 and 702 Cupboard Turns, for use on casings which are not flush with doors, is furnished when so specified.

The Turns are simple in construction, having but few parts. Cannot get out of order.

All standard finishes are kept regularly in stock. Special finishes on short notice. For list of finishes, see page 125.

Each Turn is wrapped in a separate package, complete with screws. Packed one dozen in a box. Forty-eight dozen in a case.

Weight, per dozen, 2 pounds.

No. 600 Sash Lock

(Patented October 6, 1908)

All-Steel or Solid Brass



Cut full size



Bottom view of Sash Lock

The Sash Lock here illustrated is our latest model, and one which we consider superior to any other. The Lock is made of cold rolled steel throughout, taking an exceptionally fine finish; also furnished in solid brass.

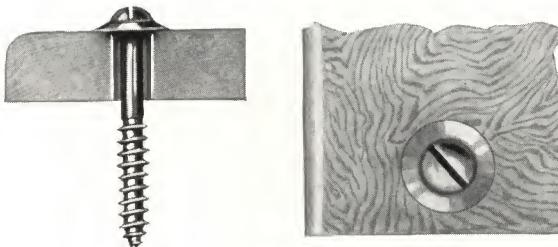
The lower illustration shows the simple construction of this Lock. The coil spring is made of finest piano wire, fully tested. Owing to the peculiar and simple construction of the Lock, friction is reduced to the minimum and the rigidity of the Lock is retained.

Each Lock is wrapped in a separate package, complete with screws. Packed one dozen in a box. Seventy-two dozen in a case. Any finish desired. For list of finishes, see page 125.

Weight, per dozen, 2 pounds.

One-Piece Stop Bead Screw

Requires no washer



No. 300—Cut full size of $1\frac{1}{8} \times 8$

Size Inches	Weight per Gross Pounds
$1\frac{1}{8} \times 8$	1
$1\frac{1}{4} \times 10$	$1\frac{1}{2}$

Packed one gross in a box. For list of finishes, see page 125.

No. 130 Steel Sash Lift



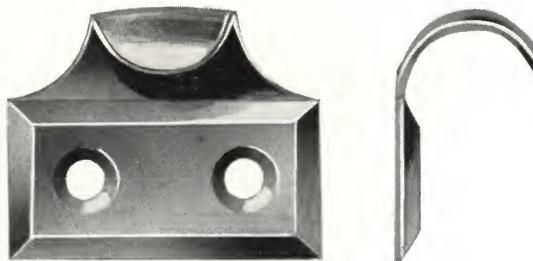
No. 130—Cut full size

Packed one-half gross in a box, with round-head screws. Eight gross in a case. Any finish desired. For list of finishes, see page 125.

Weight, per gross, $4\frac{3}{4}$ pounds.

No. 135 Steel Sash Lift

Pressed Steel or Brass



Cut full size

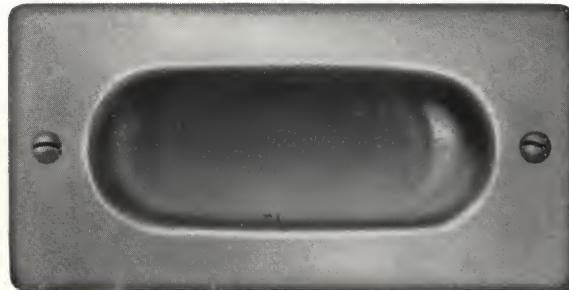
The sectional view at the right shows the liberal projection for the fingers—an unusually valuable feature of this Lift.

Packed one-half gross in a box, with oval-head screws. Eight gross in a case. Any finish desired. For list of finishes, see page 125.

Weight, per gross, $5\frac{1}{4}$ pounds.

No. 140 Flush Sash Lift

Pressed Steel



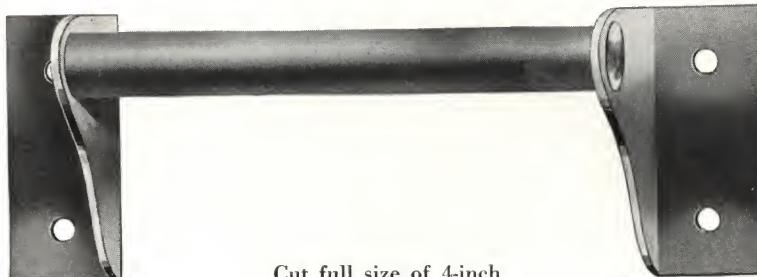
Cut full size

Each Lift is wrapped in a separate package, complete with oval-head screws. Packed one-quarter gross in a box. Any finish desired. For list of finishes, see page 125.

Weight, per gross, $9\frac{1}{2}$ pounds.

B U I L D E R S ' H A R D W A R E

No. 150 Bar Sash Lift and Drawer Pull
Pressed Steel



Size Inches	Weight per Gross Pounds
4	22 $\frac{3}{4}$
4 $\frac{1}{2}$	25

Four Sash Lifts, with screws in envelope, tied in a package. Packed one-quarter gross in a box. Five gross in a case. Any finish desired. For list of finishes, see page 125.

No. 160 Bar Sash Lift and Drawer Pull
Cast Iron



Size Inches	Weight per Gross Pounds
4	23 $\frac{1}{2}$
5	39 $\frac{1}{4}$

Packed one-quarter gross in a box, with screws. Four gross in a case. Any finish desired. For list of finishes, see page 125.

No. 105 Crescent Drawer Pull
Pressed Steel or Brass



Size Inches	Steel Weight per Gross Pounds	Brass Weight per Gross Pounds
3 1/4	10	11
3 3/4	13 1/2	14 1/2

The 3 1/4-inch size only is furnished in solid brass.

Each Crescent Pull is wrapped in a separate package, complete with screws. Packed one-quarter gross in a box. Six gross in a case. Any finish desired. For list of finishes, see page 125.

No. 200 Pressed Steel Pull



Made of cold rolled steel, highly polished. One size only, 5 inches. Packed one-quarter gross in a box, with screws. Any finish desired. For list of finishes, see page 125.

Weight, per gross, 7 3/4 pounds.

No. 205 Drawer Pull

Pressed Steel



Cut full size of 3 $\frac{1}{4}$ -inch

Length Inches	Width Inches	Weight per Gross Pounds	Number of Gross in Case
2 $\frac{3}{4}$	$\frac{1}{2}$	5 $\frac{1}{4}$	5
3 $\frac{1}{4}$	$\frac{5}{8}$	7 $\frac{3}{4}$	6
4 $\frac{1}{2}$	$\frac{3}{4}$	13	5

Packed one-quarter gross in a box, with screws. Any finish desired. For list of finishes, see page 125.

No. 210 Screen Lift

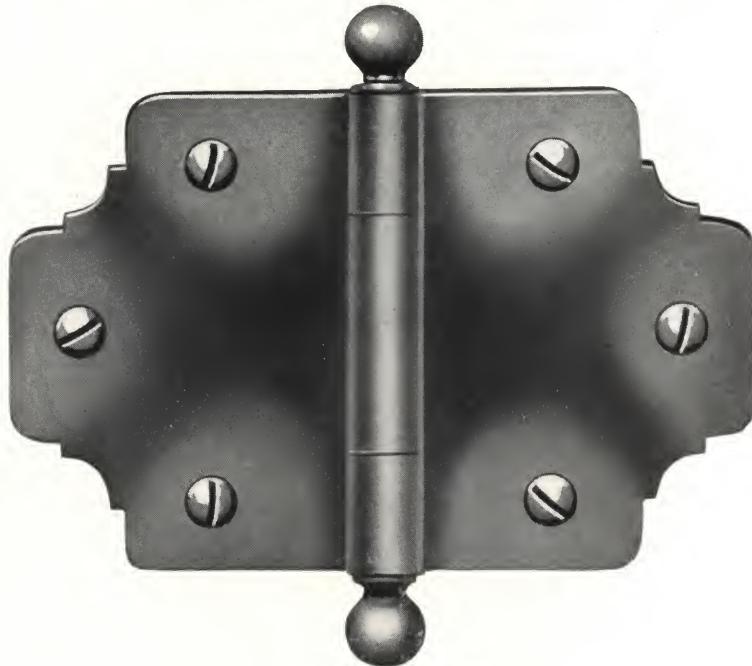
Japanned or Plated



Packed one-half gross in a box, complete with screws. Any finish desired. For list of finishes, see page 125.

Weight, per gross, 4 $\frac{1}{2}$ pounds.

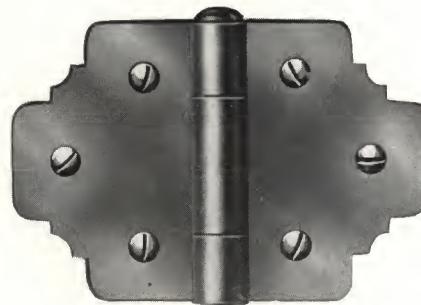
No. 405 Ornamental Surface Hinge



Cut full size of 2 1/2-inch

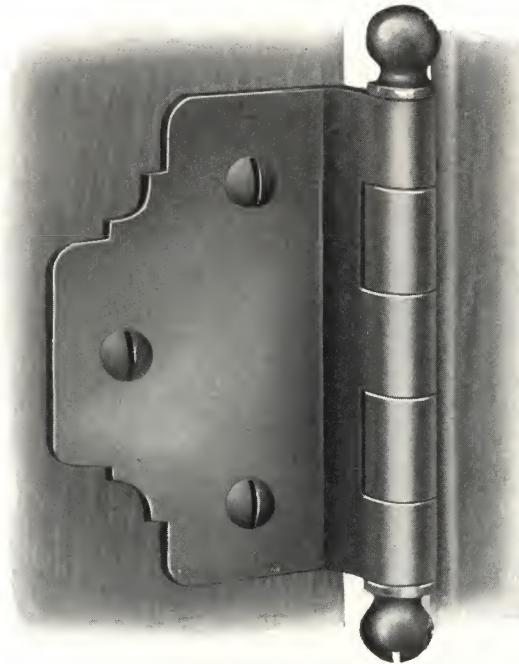
Size Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
1 1/2	Oval head	Flat	1 dozen	2	40
1 3/4	Oval head	Flat	1 dozen	2 1/2	32
2	Ball tip	Flat	1 dozen	4 1/4	18
2 1/2	Ball tip	Flat	1 pair	7	12

Sizes 1 1/2-inch, 1 3/4-inch and 2-inch are packed one pair in an envelope, with oval head screws; 1 3/4-inch No. 405 Sherardized Tight Brass Pin for wash tray hinge with Sherardized screws. (See page 7.)



Cut full size of 1 1/2-inch

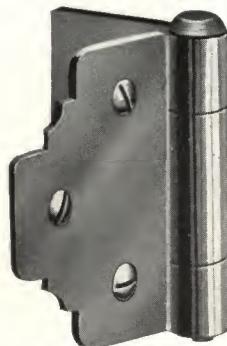
No. 400 Ornamental Cupboard Butt



Cut full size of 2½-inch

Size Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
1½	Oval head	Flat	1 dozen	2	40
1¾	Oval head	Flat	1 dozen	2½	32
2	Ball tip	Flat	1 dozen	4	18
2½	Ball tip	Offset	1 pair	7	12

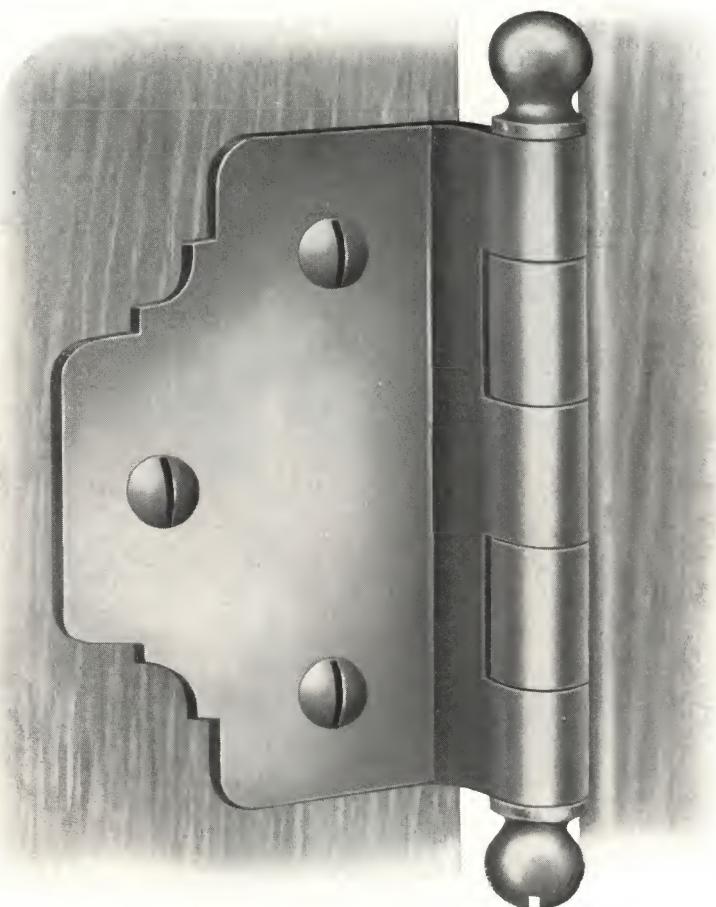
Sizes 1½-inch, 1¾-inch and 2-inch are packed one pair in an envelope, with oval head screws. (See page 7.)



Cut full size of 1¾-inch

NATIONAL MANUFACTURING COMPANY
STERLING, ILLINOIS

No. 400 Ornamental Butt



Cut full size of 3½-inch

No. 400 Ornamental Butt

Made of cold rolled steel, highly polished.

Tapped at both ends, making it reversible.

The false tip is threaded and screws into the Butt. It also has a slot for a screw-driver, making it easy to remove the tip and affording ready access to the pin.

The slot also indicates which is the bottom of the Butt—a very popular feature with carpenters and builders.

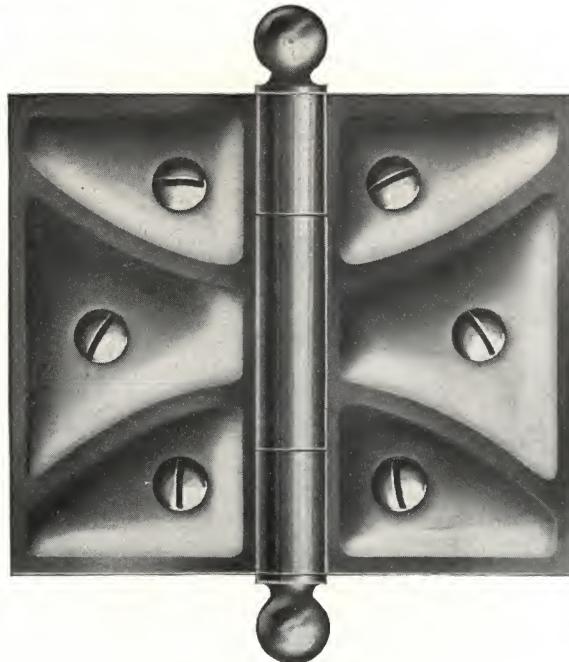
Packed one pair in a carton, with oval head screws. Any finish desired. For list of finishes, see page 125.

Made in the following sizes:

Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
3	11	12
3½	17½	12
4	21¾	12
4½	28½	6

For smaller sizes, see page 97.

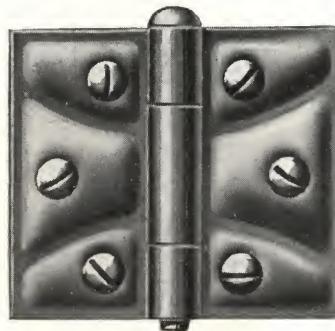
No. 425 Ornamental Surface Hinge



Cut full size of 2 1/2-inch

Size Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
1 1/2	Oval head	Flat	1 dozen	2	40
1 3/4	Oval head	Flat	1 dozen	2 3/4	32
2	Ball tip	Flat	1 dozen	4	18
2 1/2	Ball tip	Flat	1 pair	7 1/2	12

Sizes 1 1/2-inch, 1 3/4-inch and 2-inch are packed one pair in an envelope, with oval head screws. (See page 7.)



Cut full size of 1 1/2-inch

No. 420 Ornamental Cupboard Butt



Cut full size of 2½-inch

Size Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
1½	Oval head	Flat	1 dozen	2	40
1¾	Oval head	Flat	1 dozen	2½	32
2	Ball tip	Flat	1 dozen	5	18
2½	Ball tip	Offset	1 pair	8	12

Sizes 1½-inch, 1¾-inch and 2-inch are packed one pair in an envelope, with oval head screws. (See page 7.)



Cut full size of 1½-inch

NATIONAL MANUFACTURING COMPANY
STERLING, ILLINOIS

No. 420 Ornamental Butt



Cut full size of 3½-inch

No. 420 Ornamental Butt

Made of cold rolled steel, richly embossed.

Tapped at both ends, making it reversible.

The false tip is threaded and screws into the Butt. It also has a slot for a screw-driver, making it easy to remove the tip and affording ready access to the pin.

The slot also indicates which is the bottom of the Butt—a very popular feature with carpenters and builders.

Packed one pair in a carton, with oval head screws. Any finish desired. For list of finishes, see page 125.

Made in the following sizes:

Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
3	11½	12
3½	17½	12
4	22	12

For smaller sizes, see page 101.

No. 455 Ornamental Surface Hinge



Cut full size of 2½-inch

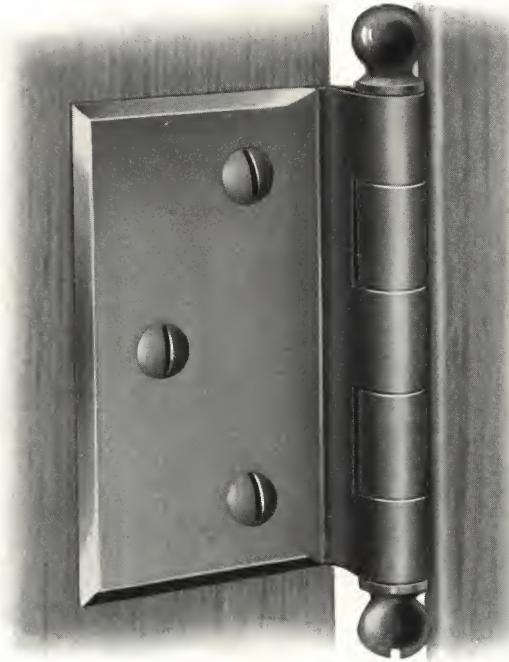
Size Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
1½	Oval head	Flat	1 dozen	2	40
1¾	Oval head	Flat	1 dozen	2¾	32
2	Ball tip	Flat	1 dozen	4	18
2½	Ball tip	Flat	1 pair	7½	12

Sizes 1½-inch, 1¾-inch and 2-inch are packed one pair in an envelope, with oval head screws. (See page 7.)



Cut full size of 1½-inch

No. 450 Ornamental Cupboard Butt



Cut full size of 2½-inch

Size Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pound	Dozen Pairs in Case
1½	Oval head	Flat	1 dozen	2	40
1¾	Oval head	Flat	1 dozen	2½	32
2	Ball tip	Flat	1 dozen	5	18
2½	Ball tip	Offset	1 pair	8	12

Sizes 1½-inch, 1¾-inch and 2-inch are packed one pair in an envelope, with oval head screws. (See page 7.)



Cut full size of 1½-inch

NATIONAL MANUFACTURING COMPANY
STERLING, ILLINOIS

No. 450 Ornamental Butt



Cut full size of 3½-inch

No. 450 Ornamental Butt

Made of selected cold rolled steel, highly polished, *double-plated*, with beveled edges.

Tapped at both ends, making it reversible.

The false tip is threaded and screws into the Butt. It is also slotted for a screw-driver, making it easy to remove the tip and affording ready access to the pin.

The slot also indicates which is the bottom of the Butt—a very popular feature with carpenters and builders.

This design matches very nicely the escutcheon plates with beveled edges, giving a very harmonious effect.

One pair in a carton, each Butt wrapped separately, with oval head screws. Any finish desired. For list of finishes, see page 125.

Made in the following sizes:

Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
3	11½	12
3½	17½	12
4	22	12
4½	29	6

For smaller sizes, see page 105.

No. 475 Ornamental Hinge



Cut full size

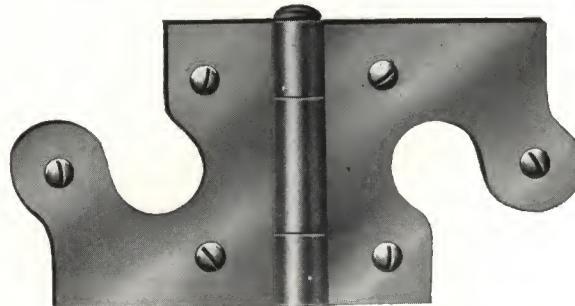
Made in 1-inch size only.

Packed one dozen pairs in a box, with oval head screws. Thirty-two dozen pairs in a case.

Any finish desired. For list of finishes, see page 125.

Weight, per dozen pairs, 1½ pounds.

No. 355 Ornamental Surface Hinge



Cut full size of 1½-inch

Size Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
1½	Oval head	Flat	1 dozen	2	40
1¾	Oval head	Flat	1 dozen	3	32

Packed one pair in an envelope, with oval head screws. (See page 7.)

No. 485 Ornamental Hinge



Cut full size of 1¼-inch

Made of cold rolled steel. Embossed leaves. Smooth knuckles.

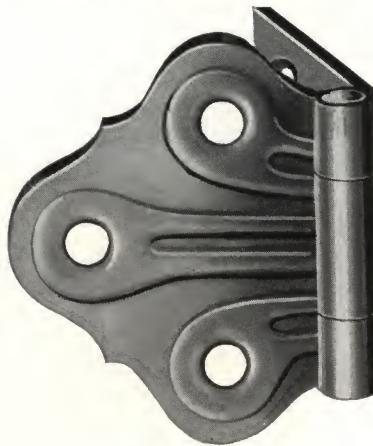
Length of joint, 1¼ inches and 1½ inches.

Packed one dozen pairs in a box, each pair in a separate envelope, with $\frac{5}{8} \times 5$ oval head screws. Thirty-two dozen pairs in a case.

Any finish desired. For list of finishes, see page 125.

Weight, per dozen, 1¼-inch, 2 pounds; 1½-inch, 2¾ pounds.

No. 480 Ornamental Butt



Cut full size

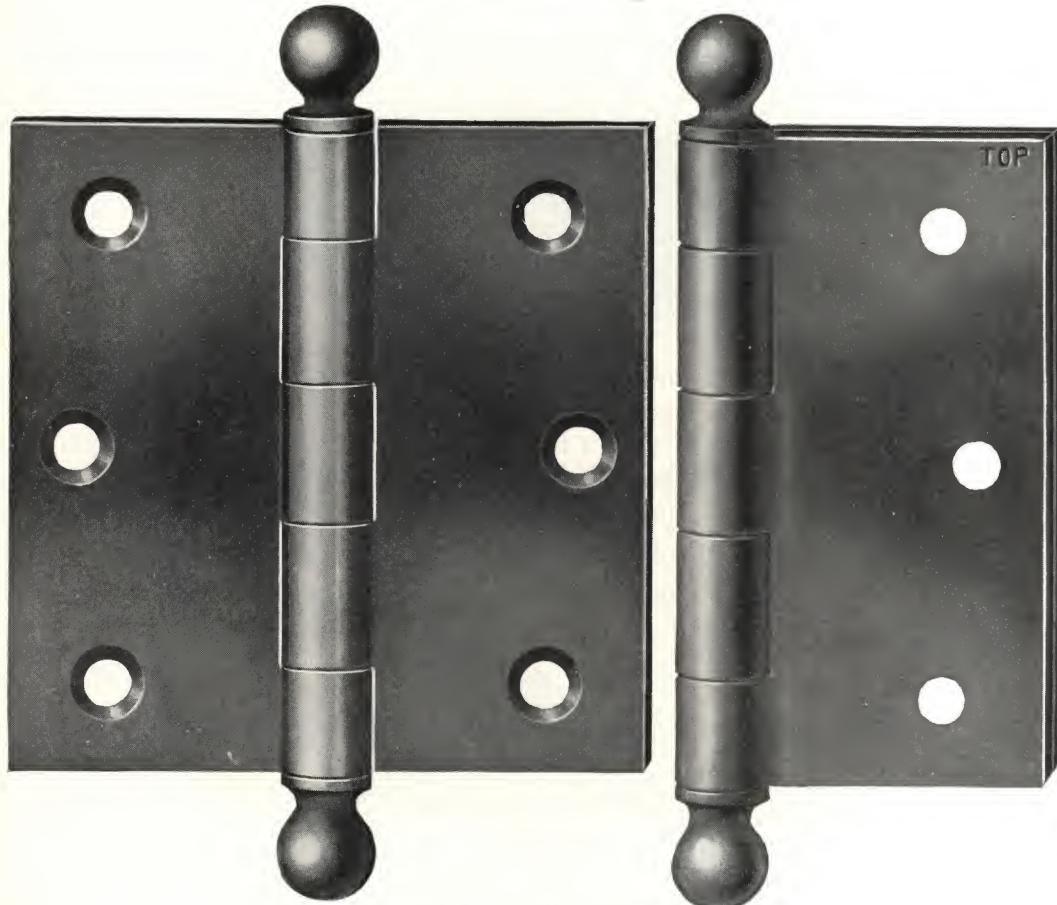
This is the same design as the No. 485 Ornamental Hinge illustrated above. It is made in 1½-inch size only.

Packed one dozen pairs in a box, each pair in a separate envelope, with $\frac{5}{8} \times 5$ oval head screws. Thirty-two dozen pairs in a case.

Any finish desired. For list of finishes, see page 125.

Weight, per dozen, 2 pounds.

No. 500 Ball Tip Butt

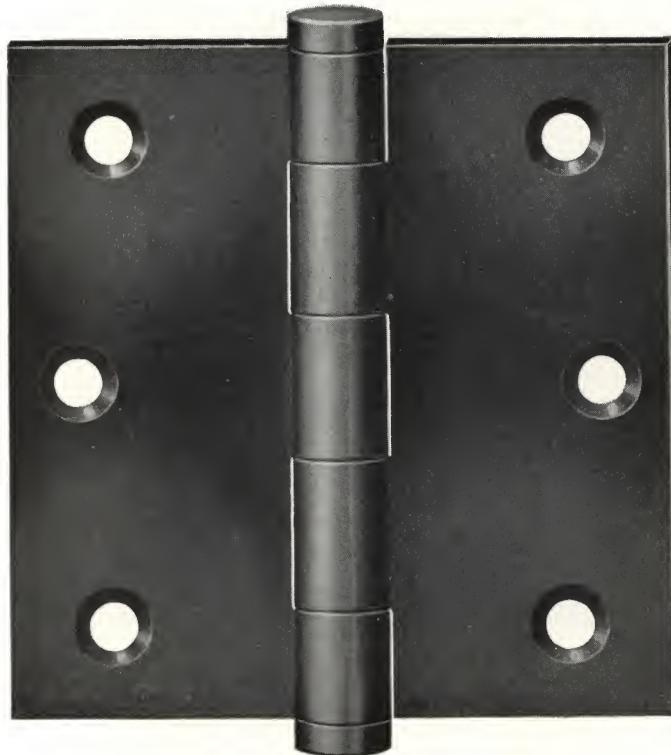


Cut full size of $3\frac{1}{2}$ x $3\frac{1}{2}$ -inch

Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case	Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
2 x 2	4	18	4 x 4	19	12
2½ x 2½	7	16	4 x 6	23	6
3 x 3	10	16	4½ x 4½	25	6
3½ x 3½	15	12	5 x 5	33	6
3½ x 5	20	6			

The 2 x 2-inch bright steel, japanned and plated Butts are packed one dozen pairs in a carton, each pair in a separate envelope, with screws. (See page 7.) All other sizes are packed one pair in a box, each plated Butt wrapped separately, with screws. The word "Top" is stamped on upper end of leaf. For list of finishes, see page 125.

No. 502 Button Tip Butt

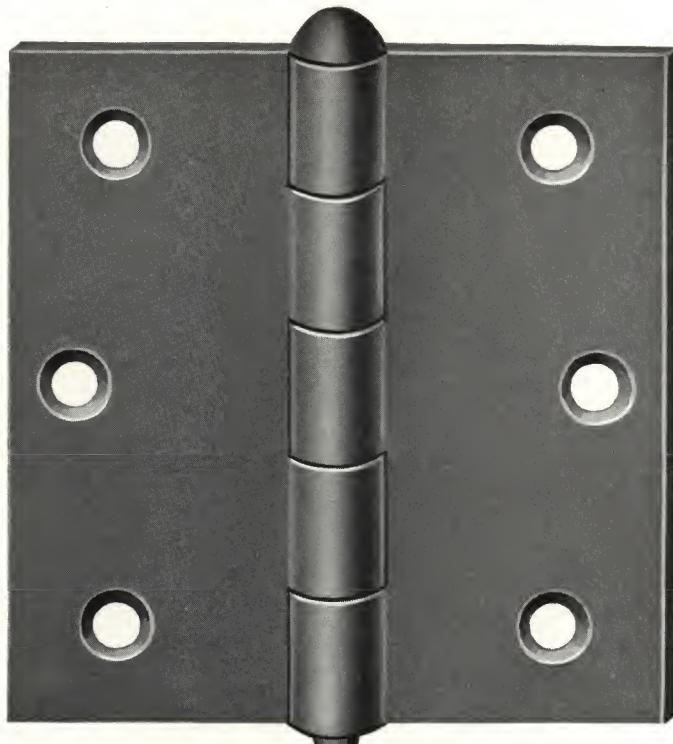


Cut full size of $3\frac{1}{2} \times 3\frac{1}{2}$ -inch

Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case	Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
$2\frac{1}{2} \times 2\frac{1}{2}$	7	16	4×4	19	12
3 x 3	10	16	4×6	23	6
$3\frac{1}{2} \times 3\frac{1}{2}$	15	12	$4\frac{1}{2} \times 4\frac{1}{2}$	25	6
$3\frac{1}{2} \times 5$	20	6			

All sizes are packed one pair in a box, each plated Butt wrapped separately, with screws. The word "Top" is stamped on upper end of leaf. For list of finishes, see page 125.

No. 504 Reversible Butt



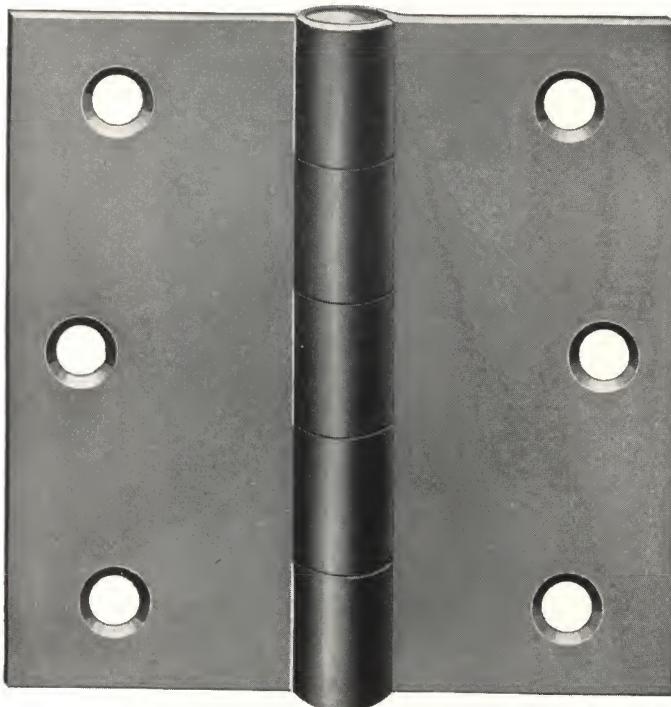
Cut full size of $3\frac{1}{2}$ x $3\frac{1}{2}$ -inch

Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
2 x 2	$3\frac{1}{4}$	18
$2\frac{1}{2}$ x $2\frac{1}{2}$	$5\frac{3}{4}$	16
3 x $2\frac{1}{2}$	8	16
3 x 3	9	16
$3\frac{1}{2}$ x 3	$12\frac{1}{2}$	12
$3\frac{1}{2}$ x $3\frac{1}{2}$	$13\frac{1}{2}$	12
4 x 4	17	12
$4\frac{1}{2}$ x $4\frac{1}{2}$	24	6

These Butts are bright steel. Also furnished Sherardized, with steel or brass pin. The 2 x 2-inch Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 7.) All other sizes are packed one pair in a box, with screws.

No. 505 Broad Butt

Tight Pin



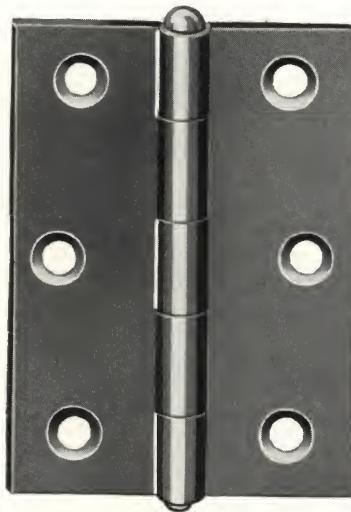
Cut full size of $3\frac{1}{2}$ x $3\frac{1}{2}$ -inch

Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
2 x 2	3 $\frac{1}{4}$	18
2 $\frac{1}{2}$ x 2 $\frac{1}{2}$	5 $\frac{3}{4}$	16
3 x 2 $\frac{1}{2}$	8	16
3 x 3	9	16
3 $\frac{1}{2}$ x 3	12 $\frac{1}{2}$	12
3 $\frac{1}{2}$ x 3 $\frac{1}{2}$	13 $\frac{1}{2}$	12
4 x 4	17	12
4 $\frac{1}{2}$ x 4 $\frac{1}{2}$	24	6

These Butts can be furnished Sherardized, with steel or brass pin, or any finish desired. (See page 125.) The 3 x 2 $\frac{1}{2}$ -inch and 3 $\frac{1}{2}$ x 3-inch Butts cannot be furnished in plated finishes. The 2 x 2-inch Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 7.) All other sizes are packed one pair in a box, with screws.

No. 508 Light Narrow Butt

Loose Pin



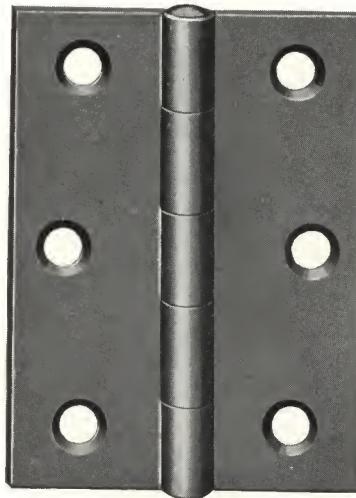
Cut full size of 2½-inch

Length Inches	Width Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
1	1	3/4	50
1 1/4	1 1/16	1	50
1 1/2	1 1/16	1 3/4	50
1 3/4	1 7/16	2 1/4	50
2	1 1/16	2 1/2	25
2 1/4	1 11/16	2 3/4	25
2 1/2	1 11/16	3	25
3	2	4 1/2	25

These Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 7.) Any finish desired. For list of finishes, see page 125.

No. 518 Light Narrow Butt

Tight Pin



Cut full size of 2½-inch

Length Inches	Width Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
1	1	3/4	50
1 1/4	1 1/16	1	50
1 1/2	1 1/16	1 3/4	50
1 3/4	1 1/16	2 1/4	50
2	1 1/16	2 1/2	25
2 1/4	1 1 1/16	2 3/4	25
2 1/2	1 1 1/16	3	25
3	2	4 1/2	25

These Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 7.) Any finish desired. Size 2-inch and larger can be furnished Sherardized with brass pin. For list of finishes, see page 125.

No. 528 Light Narrow Butt
Ball Tip

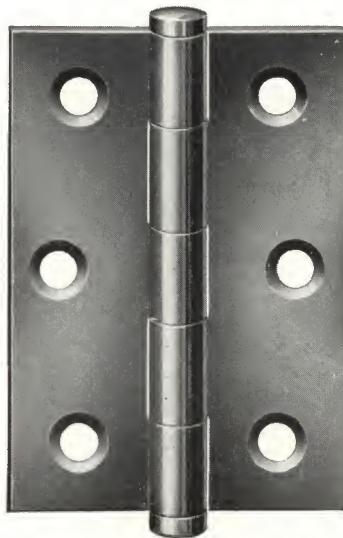


Cut full size of 2½-inch

Length Inches	Width Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
1½	1⅓	1½	40
2	1⅓	2½	50
2¼	1⅓	2¾	50
2½	1⅓	3	50
3	2	4¾	25

All sizes of these Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 7.) Any finish desired. For list of finishes, see page 125.

No. 529 Light Narrow Butt
Button Tip



Cut full size of 2½-inch

Length Inches	Width Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
2	1 $\frac{1}{16}$	2 $\frac{1}{2}$	50
2 $\frac{1}{4}$	1 $\frac{3}{16}$	2 $\frac{3}{4}$	50
2 $\frac{1}{2}$	1 $\frac{3}{16}$	3	50

All sizes of these Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 7.) Any finish desired. For list of finishes, see page 125.

No. 538 Narrow Loose Joint Butt



LEFT HAND

This butt is used quite extensively for hanging full length screens.

Made in both right- and left-hand in 2-inch size only. Right- and left-hand packed separately.

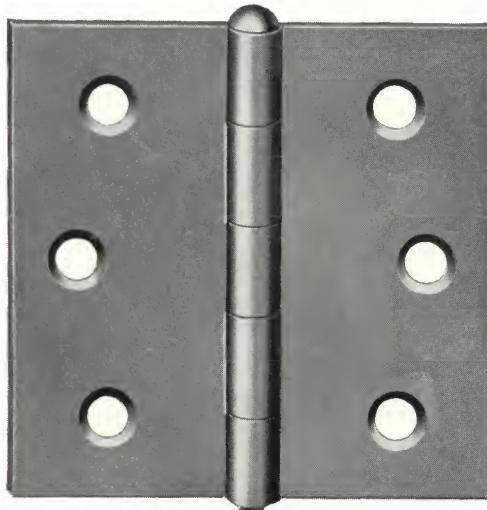
Furnished in Bright Steel and Japan.

Bright Steel, packed one dozen pairs in a box, each pair in an envelope with screws, or in bulk without screws if desired.

Japanned, packed one dozen pairs in a box, with screws only.

Weight per dozen pairs, with screws, $2\frac{1}{2}$ pounds.

No. 608 Light Reversible Butt

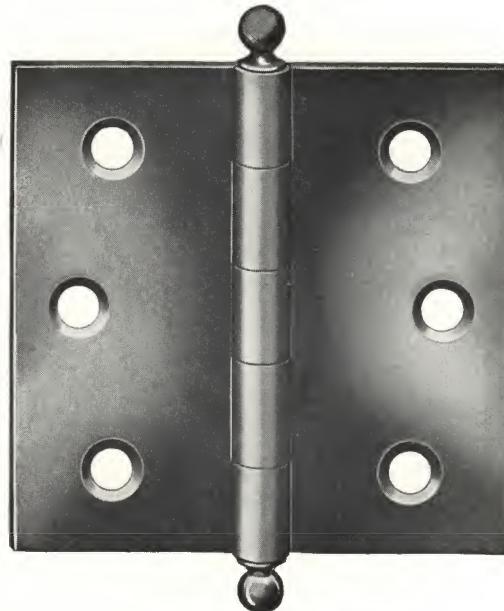


Cut full size of $2\frac{1}{2}$ x $2\frac{1}{2}$ -inch

Size Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
2 x 2	$2\frac{3}{4}$	50
$2\frac{1}{2}$ x 2	$3\frac{1}{4}$	50
$2\frac{1}{2}$ x $2\frac{1}{2}$	$3\frac{3}{4}$	25
3 x $2\frac{1}{2}$	$5\frac{1}{4}$	25
3 x 3	6	25

All sizes of these Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 7.) Any finish desired. For list of finishes, see page 125.

No. 628 Light Ball Tip Butt



Cut full size of $2\frac{1}{2}$ x $2\frac{1}{2}$ -inch

Size Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
2 x 2	$2\frac{3}{4}$	50
$2\frac{1}{2}$ x 2	$3\frac{1}{4}$	50
$2\frac{1}{2}$ x $2\frac{1}{2}$	4	25
3 x $2\frac{1}{2}$	$5\frac{1}{2}$	25
3 x 3	$6\frac{1}{4}$	25

All sizes of these Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 7.) Any finish desired. For list of finishes, see page 125.

No. 629 Light Button Tip Butt

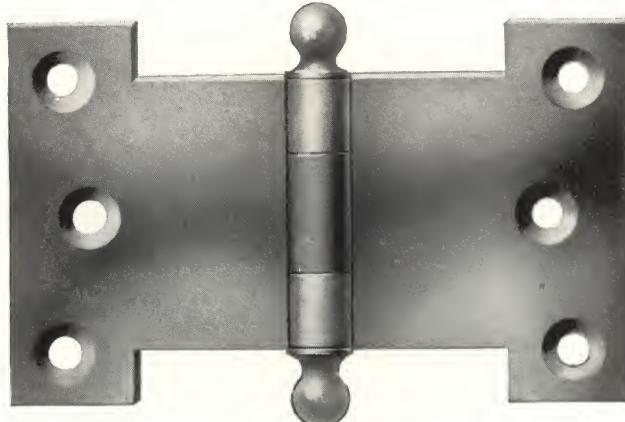


Cut full size $2\frac{1}{2}$ x $2\frac{1}{2}$ -inch

Size Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
2 x 2	$2\frac{3}{4}$	50
$2\frac{1}{2}$ x 2	$3\frac{1}{4}$	50
$2\frac{1}{2}$ x $2\frac{1}{2}$	4	25

All sizes of these Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 7.) Any finish desired. For list of finishes, see page 125.

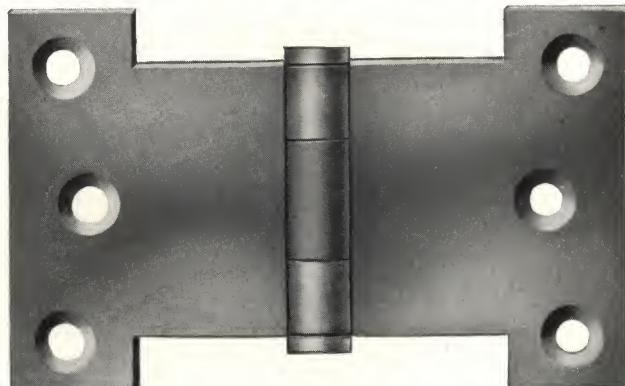
No. 650 Parliament Ball Tip Butt



Size Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
3	5 1/4	24
3 1/2	7 3/4	24
4	8 1/4	24
4 1/2	8 3/4	24
5	10 1/2	24

Especially adapted for hanging French windows. Packed one pair in a box, with screws. Any finish desired. For list of finishes, see page 125.

No. 652 Parliament Button Tip Butt



Size Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
3 1/2	7 3/4	24
4	8 1/4	24
4 1/2	8 3/4	24
5	10 1/2	24

Especially adapted for hanging French windows. Packed one pair in a box, with screws. Any finish desired. For list of finishes, see page 125.

No. 121 Loose Pin Surface Hinge

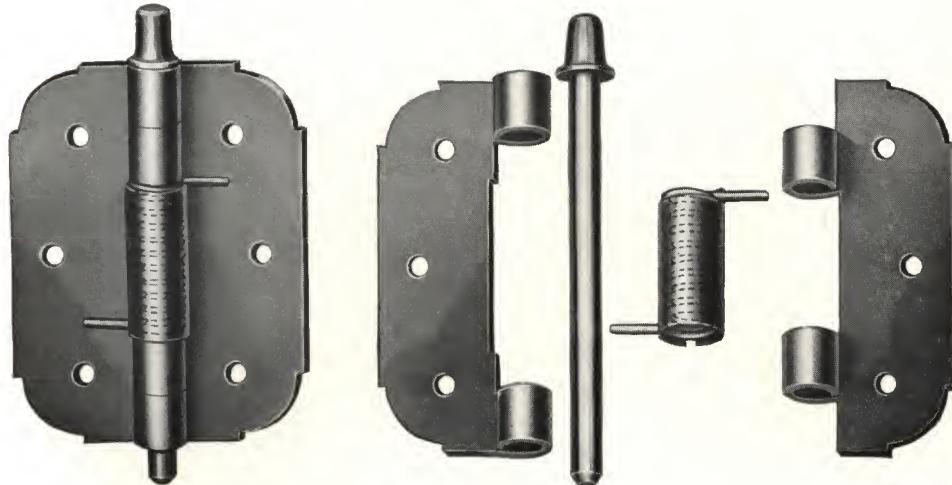


Cut one-half size

Can be used on doors not flush with joint by reversing one leaf for offset. Packed one pair in a box, with screws. Sixteen dozen pairs in a case. Any finish desired. For list of finishes, see page 125.

Weight, per dozen pairs, 7½ pounds.

No. 122 Spring Hinge



Made of steel. Music wire spring. Hinge operates with or without spring. Loose pin. Door can be taken down without removing screws.

Packed one pair in a box, with screws. Sixteen dozen pairs in a case. Any finish desired. For list of finishes, see page 125.

Weight, per dozen pairs, 7½ pounds.

NATIONAL MANUFACTURING COMPANY
 STERLING, ILLINOIS

Comparative Symbols of Hardware Finishes

National	Description	U. S. No.	Russell & Erwin Mfg. Co.	Sargent & Co.	Yale & Towne Mfg. Co.	P. & F. Corbin	Lockwood	Penn	Reading	Sager
Jap.	Bright Japanned	US1B	. . . . .	J	J	J	J	J	010	
D. B. Jap.	Dead Black Japanned	US1D	. . . . .	J	D	JF	. . .	DJ	0D10	
Sher.	Sherardized	US2S	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
Brt. Brs.	Bright Brass	US3	10	B	AZ10	A	13½	PB	31	A30
Dull B.	Dull Brass	US4	9	OB	AY22	EA	13	DB	37	D30
Ant B.	Antique Brass	. . .	9½	EB	AZ17	HA	50	ABM	34	6
A. B. S. B.	Antique Brass Sand Blast	. . .	09½	RK	AX17	SHA	14½	ABSM	35	26
A. B. S. B. N. S.	Antique Brass Sand Blast (Not shaded)	US6	09C	RD	AX28	SKA	51	BS7L	33	S31
A. C.	Antique Copper	US8	7½	AB	CZ27	R	7½	AC	24	A42
A. C. S. B.	Antique Copper Sand Blast	. . .	07½	RB	CX17	SR	17½	ACS	25	28
A. C. S. B. N. S.	Antique Copper Sand Blast (Not shaded)	. . .	07C	RL	CX22	SER	18	ACSL	23	28½
Brt. C.	Bright Copper	. . .	7B	. . .	CZ10	ER	30	PC	15	8³₄
Brze.	Bronze	US9	11	P	BZ10	B or N	1	PBZ	1	A20
Dull Brze.	Dull Bronze	US10	11D	OP	BY22	DB	34	DBZ	7	D20
Nick.	Nickel	US14	4	N	NZ10	E	5	PN	80	A50
Dull Nick.	Dull Nickel	US15	14	LN	NY10	DE	90	DN	77	D50
Nick S. B.	Nickel Sand Blast	US16	04	RN	NX10	SE	5S	NS	78	S51
E. B. B.	Electro Bower Barff	US19	47	BN	FX90	KF	6	IRP	87½	18
Lt. Stat. Brze.	Light Statuary Bronze	US20	2	A	BY65	KB	38	PBZ4	2	D29
Dark Stat. Brze.	Dark Statuary Bronze	US20A	2D	A3B	. . .	LB	2	BBZ6	2	DD29
Stat. Brze. S. B.	Statuary Bronze Sand Blast	US21	02	RA	BX12	SKB	38S	BZS4L	2½	S29

BUILDERS' HARDWARE

Finishes, with Their Abbreviations

The following is a list of the regular finishes of plated goods which we carry in stock:

Finish	Abbreviation
Bright Steel	Brt. S.
Sherardized	Sher.
Amber Bronze	Amber
Jappanned	Jap.
Antique Copper	A. C.
Dull Brass	Dull B.
Antique Brass Sand-Blast	A. B. S. B.
Antique Brass Sand-Blast Not Shaded	A. B. S. B. N. S.
Nickel	Nick.

The following special finishes can be furnished on short notice:

Dead Black Japan	D. B. Jap.
Copper Washed	Cop. W.
Dull Antique Copper	Dull A. C.
Dull Copper	Dull C.
Bright Copper	Brt. C.
Antique Brass	Ant. B.
Dull Antique Brass	Dull A. B.
Bronze	Brze.
Statuary Bronze	Stat. Brze.
Statuary Bronze Sand-Blast	Stat. Brze. S. B.
Antique Copper Sand-Blast	A. C. S. B.
Antique Copper Sand-Blast Not Shaded	A. C. S. B. N. S.
Dull Brass Sand-Blast	Dull B. S. B.
Electro Bower Barff	E. B. B.
Bright Brass	Brt. Brs.
Dull Nickel	Dull Nick.
Nickel Sand Blast	Nick. S. B.

The finish formerly called "Dull A. B. S. B." has been changed to "A. B. S. B. N. S." as the name more clearly describes this finish.

"Brush Brass" and "Lemon Brass" finishes mean the same as "Dull Brass." "Old Brass" is the same as "Antique Brass."

All sherardized plated goods are stamped with the letters "Sher." to indicate that they are sherardized before being plated.

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